MINISTRY OF EDUCATION AND TECHNICAL EDUCATION

وزارة التربية والتعليم والتعليم الفني

Primary 5

Mathematics

Performances and Assessments



First Term

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The Ministry of Educataion and Technical Education dedicates this book, with love to the students, teachers, and families of the Arab Republic of Egypt



MATHEMATICS

Performances and Assessments

Primary Five

First term

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Name : .....

Class : .....

School : .....

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Introduction

The Ministry of Education and Technical Education recognizes the importance of empowering teachers with effective tools that elevate classroom performance, enhance the quality of education, and improve its outcomes. This is a real response to the voices of teachers, interacting with the feedback channels from the educational field, and meeting the needs of teachers for flexible and comprehensive educational tools that assist them in fulfilling their noble educational mission.

This book has been designed to serve as an integrated educational support for teachers, helping them in planning and executing their teaching tasks efficiently. It also facilitates continuous assessment processes. The content has been designed to offer diverse models of effective classroom performance and educational activities created based on an interactive methodology that enhances active learning. It contributes to a qualitative shift in teaching practices, clearly focusing on the student as the core of the educational process.

The book includes formative and diagnostic questions, as well as purposeful learning tasks that students can complete as homework, enhancing the integration of learning inside and outside the classroom and contributing to the sustainable construction of learning for students. These tools help develop critical and creative thinking, deepen understanding, and support and enhance student motivation, giving them a sense of achievement and excellence.

It also includes short weekly tests and periodic assessments, allowing teachers to measure the extent of learning outcomes and address learning gaps early, providing feedback on the initial results. The performances at the end of each month are concluded with immediate training sessions that help improve student performance. These assessments are gradual, taking into account individual differences and targeting various levels of cognitive development, within a framework of diversity, depth, and integration, preparing students for monthly tests efficiently.

This book is a true translation of the Ministry's directions to ease the burdens on parents, provide supporting educational content that enriches the classroom environment, and allow teachers more time for educational innovation and productive interaction with their students. It also forms an effective tool in supporting the Ministry's direction to enhance learning outcomes, achieving a real transformation in the learning environment—from memorization to understanding, from rote learning to application, and from passive reception to active participation.

When we place this work in the hands of teachers and students, we hope it will be a valuable contribution to improving academic performance, enhancing the quality of education, and becoming an additional cornerstone in building a generation that is aware and knowledgeable, equipped with the skills and competencies needed for success in a world that demands creativity and innovation. It aims to have a tangible impact in realizing an ambitious educational vision for the future of education in our beloved country.

Allah is the one sought for help, and He guides to the right path...

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Unit : One

Lesson One: Decimals to the Thousandths Place

Week .....

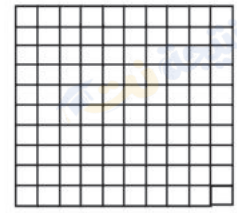
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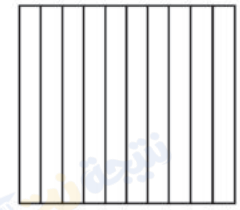
Class performance

Activity (1): Adventure of Color:

Color according to the given decimal fraction

0.24

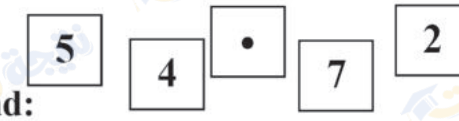




0.6

Activity (2): Four in Four:

In front of you a set of number cards, share with your classmate by using all the cards to find:



a) Four decimal numbers, each of four digits, containing two decimal digits.
b) Take turns with your colleague read the numbers formed in front of the teacher.

Activity (3): The Fun World of Colors:

In cooperation with your group members, color the fraction or the decimal number according to the color written in verbal form:

Five and forty-two thousandths	Four and fifty-two thousandths	Two hundred and forty-five thousandths
4.052	0.245	5.024

Home performance: (Home Work)

Answer the following questions:

(1) Write the decimal fraction 0.392 in verbal form.

(2) Write the fraction $\frac{528}{1,000}$ as a decimal fraction.

(3) Write each of the following ordinary fractions as a decimal fraction:

a) $\frac{5}{10}$ b) $\frac{52}{100}$ c) $\frac{254}{1,000}$ d) $\frac{1,125}{1,000}$

(4) Write the number ninehundred twenty-three thousandths, in standard form.

(5) Hossam says that the decimal fraction 0.360 is equal to the decimal fraction 0.36, Do you agree with him? Explain your answer.

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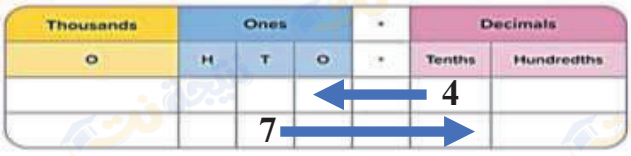
Lesson Two: **Place Value Shuffle**

Week ..... Date: / /

Class performance

Activity (1): Adventure of Directions:

When the two digits 7 and 4 moved inside the opposite place value chart, then:



1) **The value of the digit 4 after moving as the figure becomes ……**
2) **The value of the digit 7 after moving as the figure becomes ……**
3) **The mathematical operation needed to change the value of the digit 7 as the figure is (a/an) ……. operation**
4) **The mathematical operation needed to change the value of the digit 7 as the figure is (a/an) ……. operation**

Activity (2): Science of Excitement:

In collaboration with your classmates in the group, determine the value of the digit 6 in each of the following numbers:

0.462	5.406	4.620	6.450

Home performance: (Home Work)

Answer the following questions:

1) **Find the value: 7.3×10**
2) **Find the value: $26.08 \div 100$**
3) **What would happen to the value of the digit 6 if the number 48.36 is multiplied by 100?**
4) **What would happen to the value of the digit 2 if the number 32.45 is divided by 10?**
5) **Mohamed sells dailly 36.53 kg of banana, How many kilogram of banana he will sell in 10 days?**

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Lesson Three: **Composing and Decomposing Decimals**

Week .....

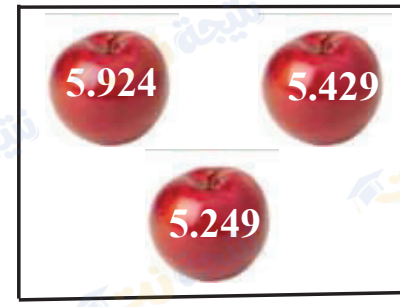
Date: / /

Class performance

Activity (1): The Apple Box:

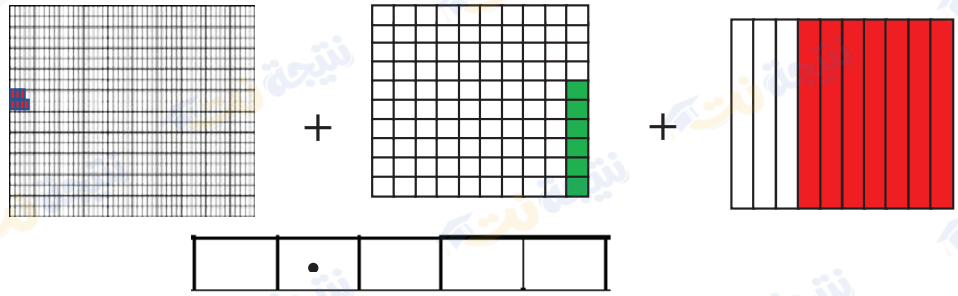
In front of you a decomposed decimal number, choose the apple that carried this number in the standard form.

5+0.2+0.04+0.009



Activity (2): Decimal Composition Game:

Share with your classmates in the group to form the decimal number that represented by the given charts in the standard form and write in inside the given table



Home performance: (Home Work)

Answer the following questions:

1) **Decompose the number: 46.023**
2) **Find the result: 75 + 0.356**
3) **Write the following number in the standarf form:**

$$(2\times10)+(3\times1)+(7\times\frac{1}{10})+(5\times\frac{1}{100})$$

4) **Decompose the following numbers using two different methods: 4.720 and 19.735**
5) **Write the number that represented in the following place value chart in the standard form:**

Thousands	Ones			.	Decimals		
O	H	T	O	.	Tenths	Hundredths	Thousandths
		2	9	.	7	6	4

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Week ..... - Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) 2.735 = 2 + ...+ 0.03 + 0.005

a) 70 b) 7 c) 0.7 d) 0.07

Second: Answer the following questions:

2) Decompose the decimal number:

a) 0.392 b) 6.923

3) Write each of the following numbers in a decimal form:

a) $\frac{4}{10}$ b) $\frac{57}{100}$

4) What would happen to the value of the digit 9 if the number 3.29 multiplied by 100?

5) Write the decimal number 4.205 in word form.

Model (B)

First: Choose the correct answer from those given:

1) 125.47 = 125 + ...

a) 47 b) 7 c) 4 d) 0.47

Second: Answer the following questions:

2) Decompose the decimal number:

a) 0.825 b) 7.543

3) Write each of the following numbers in a decimal form:

a) $\frac{5}{10}$ b) $\frac{92}{100}$

4) What would happen to the value of the digit 2 if the number 82.43 divided by 10?

5) Write the decimal number 5.304 in word form.

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Model (C)

First: Choose the correct answer from those given:

1) 34.65 = ... + 0.65

a) 34 b) 4 c) 3 d) 0.34

Second: Answer the following questions:

2) Decompose the decimal number:

a) 0.741 b) 25.461

3) Write each of the following numbers in a decimal form:

a) $\frac{6}{10}$ b) $\frac{43}{100}$

4) What would happen to the value of the digit 4 if the number 2.48 multiplied by 10?

5) Write the decimal number 6.203 in word form.

Lesson Four: **Comparing Decimals**

Week .....

Date: / /

Class performance

Activity (1): Friends' Jumps:

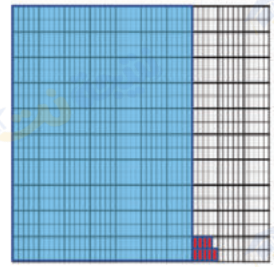
The following table represents the distances that a group of students jump in P.E. session. Share it with your colleague to find:

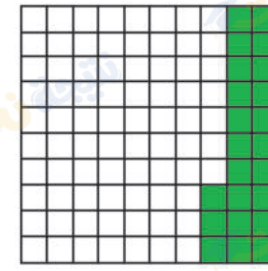
Student	Ahmed	Khadiga	Asmaa	Ali	Omar
Length in meter	2.059	1.9	1.75	1.900	2

1) Which of them jumps the longest distance inside the group?
2) Which of them jumps the shortest distance Asmaa or Khadiga?
3) The teacher gives Khadiga and Ali the same prize. Why?

Activity (2): Fun Comparison:

In collaboration with your classmates in the group, write the decimal numbers that are represented by the given charts, then use one of the two cards [>] [<] to compare between them.





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Home performance: (Home Work)

Answer the following questions:

1) Write a number smaller than the number 56.341
2) Write a number greater than the number 2.03
3) Compare between the two numbers: $7\frac{1}{4}$ and 7.41
4) Determine the smallest number from the following numbers:
   8.2 , 2.8 , 28.1 and 28.8
5) Determine the greatest number from the following numbers:
   1.234 , 1.2 , 1.354 and 1.54

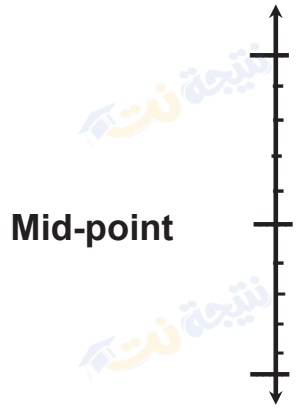
Lesson Five: Rounding Decimals

Week ..... Date: / /

Class performance

Activity (1): The Card and it's right place:

Use the following cards by putting each of them in the correct place to round the number 6.877 to the nearest hundredths using the mid-point method, then find the result of rounding .



6.870 6.875 6.880 6.877

Activity (2): Delicious Fruit Season:

Mohamed bought a watermelon of mass 3.32 kilogram, and a cantaloupe with a mass 2.63 kilogram, compare between the two masses, which of them has the smaller mass and round each mass to the nearest unit




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Home performance: (Home Work)

Answer the following questions:

1) Round the number 99.9 to the nearest unit.
2) Round the number 3.456 to the nearest hundredths.
3) Round the number 27.526 to the nearest unit.
4) Round the number 3.625 to the nearest hundredths.
5) Round the number 5.3572 to the nearest tenths and to the nearest thousandths

Lesson Six: **Estimating Decimal Sums**

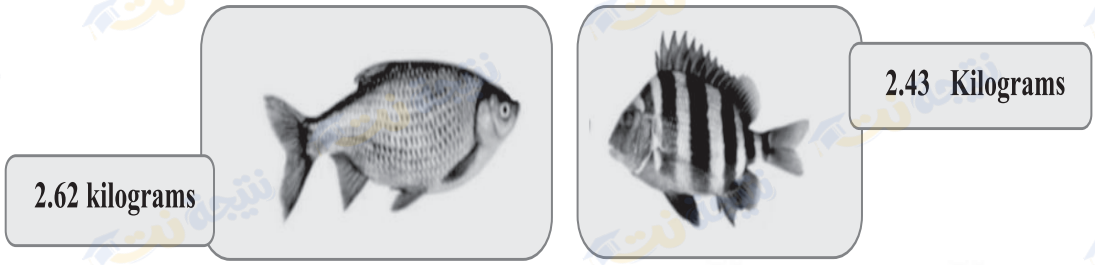
Week .....

Date: / /

Class performance

Activity (1): Fishing:

Ahmed caught two fishes from the Nile River; their masses were as shown in the figure. He wants to estimate their masses before adding, so the result was 2 + 3
The strategy that Ahmed used in estimation is rounding to the nearest ……..
(tenths) , (hundredths) , (unit)



Activity (2): Fraction's Flowers:

Share with your classmate in choosing the flower that bears the result of estimating the two decimal numbers: 3.109 + 5.293 using the first digit from the left strategy.



Home performance: (Home Work)

Answer the following questions:

1) Find the result of estimation of the addition of the decimal numbers using the first digit from the left strategy: 30.35 + 45.83
2) Determine the used strategy in estimation the decimal numbers: 0.96 +0.45 so that the result will be: 1 + 0.5 = 1.5

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3) Find the result of the estimation of the addition of the decimal numbers using rounding to the nearest unit: 6.234 + 7.621
4) Find the result of the estimation of the addition of the decimal numbers using the first digit from the left strategy: 12.234 + 6.452
5) Find the result of the estimation of the addition of the decimal numbers: 26.523 + 43.291 according to the required rounding in the brackets

Week …….. - Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) 5.238 > ……..

a) 5.328 **b) 5.823** **c) 5.832** **d) 5.138**

Second: Answer the following questions:

2) Compare the two numbers: $4\frac{3}{10}$ and 4.256

3) Round the number 27.63 to the nearest unit

4) Round the number 6.345 to the nearest hundredths

5) Find the estimation of the addition of the following decimal numbers using the first digit from the left strategy: 71.14 + 35.24

Model (B)

First: Choose the correct answer from those given:

1) 5.491 <……..

a) 5.941 **b) 5.419** **c) 5.149** **d) 5.194**

Second: Answer the following questions:

2) Compare the two numbers: $3\frac{3}{10}$ and 3.56

3) Round the number 23.48 to the nearest tenths

4) Round the number 3.47 to the nearest unit

5) Find the estimation of the addition of the following decimal numbers using the first digit from the left strategy: 73.14 + 12.23

Model (C)

First: Choose the correct answer from those given:

1) 4.126 > ……..

a) 4.612 **b) 4.621** **c) 6.421** **d) 2.124**

Second: Answer the following questions:

2) Compare the two numbers: $7\frac{43}{100}$ and 7.256

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3) Round the number 9.543 to the nearest hundredths
4) Round the number 7.96 to the nearest unit
5) Find the estimation of the addition of the following decimal numbers using the first digit from the left strategy: 63.38 + 47.12

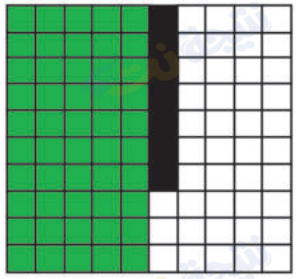
Lesson Seven : Modeling Decimal Addition

Week ..... Date: / /

Class performance

Activity (1): Magic Fractions Colors:

There are two colored decimals. Write these numbers in the following place value chart.



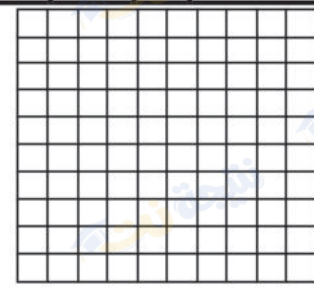
Ones			.	Decimals		
H	T	O	.	Tenths	Hundredths	Thousandths
			.			
			.			

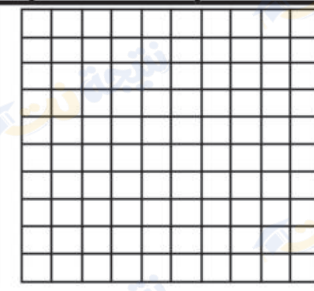
Activity (2): Story of Change:

Share with your classmates coloring the following empty model to add the following decimal numbers, then present your work to your teacher:

a) 0.23 + 0.7

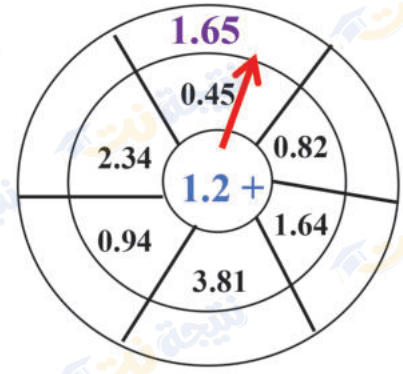
b) 1.2 + 0.5





Activity (3): Towards the Goal:

Play with your classmates in the group using the given spinner so that each one in your group will find the sum of the decimal numbers in the small circle with the other decimal number in the middle, then write the answer as shown in the solved example in the figure, so that one of you takes on the role of the timer, and you should exchange roles each time.

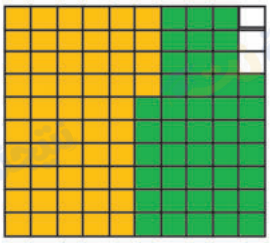


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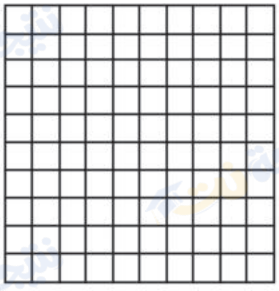
Home performance: (Home Work)

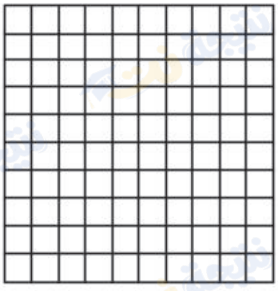
Answer the following questions:

1. What is the value of the number (35 hundredths + 45 hundredths) in tenths?
2. Find the result of the following: 4.09 + 5.9
3. Write the mathematical expression that represents the following model.



4. Add: 0.45 + 0.66 using the decimal model and the following place value chart:





Ones			.	Decimals		
H	T	O	.	Tenths	Hundredths	Thousandths
			.			
			.			
			.			

5. Find the result of the following addition:

a) 5.14 + 3.48 b) 7.55 + 4.3 c) 12.231 + 6.52 + 0.1

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Lesson Eight : **Modeling Decimals Subtraction**

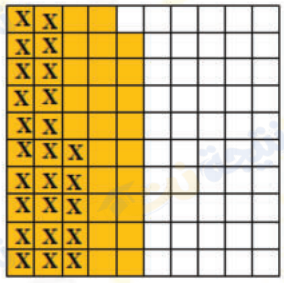
Week .....

Date: / /

Class performance

Activity (1): Focus Game:

In the following decimal model, there is a colored decimal fraction with a part of it removed. Write a numerical expression that represents the fraction before the removal, and a numerical expression that represents the fraction after the removal in the following place value table.



Ones			.	Decimals		
H	T	O	.	Tenths	Hundredths	Thousandths
			.			
			.			
			.			

Activity (2): The Adventure of Number X:

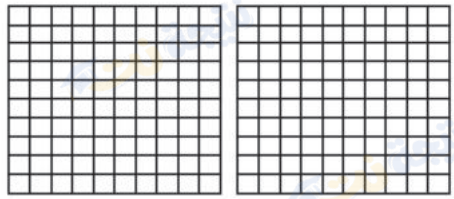
Share with your classmate to join the value of x each time from group (1) as appropriate from group (2).

1	8.74	x	2.52
	x	3.425	2.52
	6.74	3.42	x
2	5.945	3.32	6.22

Home performance: (Home Work)

Answer the following questions:

1) What is the result of subtracting: 68 hundredths - 2 tenths in the form of hundredths?
2) Find the result: 5.8 – 4.08
3) Find the result of the following subtractions: a) 5.14 – 3.08 b) 7.55 – 4.34
4) Which is larger, (45.77 – 19) or (55.07 – 1.9)?
5) Find the result of the following subtraction using decimal fraction models and place value table: 1.2 – 1.02



Ones			.	Decimals		
H	T	O	.	Tenths	Hundredths	Thousandths
			.			
			.			
			.			

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Week …….. - Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) 6 tenths – 12 hundredths = ……. hundredths

a) 84 b) 48 c) 18 d) 6

Second: Answer the following questions:

2) Which is smaller: 2.33 + 1.12 or 4.23 ?

3) What is the result of addition in the following:

a) 3.54 + 2.13 b) 5.22 + 3.47 c) 6.3 + 2.05

4) What is the result of subtraction in the following:

a) 6.34 – 2.03 b) 8.536 – 5.304

5) find the value of x :

9.53	
X	5.41

Model (B)

First: Choose the correct answer from those given:

1) 46 thousandths + 13 hundredths =……. thousandths

a) 76 b) 67 c) 167 d) 176

Second: Answer the following questions:

2) Which is greater: 5.34 – 4.12 or 0.96 ?

3) What is the result of addition in the following:

a) 3.51 +4.42 b) 5.273 + 3.031

4) What is the result of subtraction in the following:

a) 7.31 – 2.52 b) 8.54 – 4.62 c) 4.02 – 5.9

5) find the value of x :

X	
3.46	4.52

Model (C)

First: Choose the correct answer from those given:

1) 72 hundredths – 21 thousandths = ……. thousandths

a) 78 b) 51 c) 708 d) 699

Second: Answer the following questions:

2) Which is smaller: 3.55 + 4.27 or 6.28 ?

3) What is the result of addition in the following:

a) 7.28 + 3.55 b) 5.242 + 4.361

4) What is the result of subtraction in the following:

a) 8.54 – 3.04 b) 9.26 – 2.34 c) 5.3 – 3.21

5) find the value of x :

8.907	
6.717	X

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Lesson Nine : **Estimating Decimal Differences**

Week ..... Date: / /

Class performance

Activity (1): Hosam's Family:

Here are the amounts of fruit eaten by the members of Hosam's family in grams. Work with your partner to find:

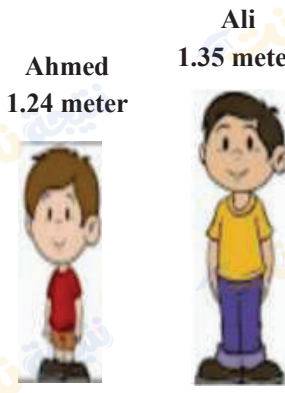
Hosam's Family	Father	Mother	Hosam	Sister
Fruit mass in grams	85.69	65.75	67.34	55.91

1. The estimated result of the subtraction of the mass of the fruit eaten by the father and Hosam using the rounding strategy to the nearest unit.

2. The estimated result of the subtraction of the mass of the fruit eaten by the mother and the sister using the first digit from the left strategy.

Activity (2): Ali and Ahmed:

The picture in front of you shows the height of each of Ali and Ahmed in meters. share with your group members to estimate the heights of both Ali and Ahmed using rounding to the nearest tenth and then find the difference. Compare the estimated result with the actual result.



Home performance: (Home Work)

Answer the following questions:

1) Find the result of estimating the subtraction of the following decimal numbers using the first digit on the left estimation strategy ,then find the actual result: 43.85 – 20.34
2) Determine the strategy used to estimate the subtraction of the decimal fractions: 8.39 – 3.56 to get a result of 8 – 4 = 4.
3) Find the result of estimating the subtraction of the following decimal numbers using rounding to the nearest whole number strategy: 7.54 – 6.45
4) Find the result of estimating the subtraction of the following decimal numbers using the first digit on the left estimation strategy: 81.351 – 51.209
5) Find the result of estimating the subtraction of the decimal numbers 43.291, 26.523 according to what is indicated in parentheses:
(using rounding to the nearest ten, using rounding to the nearest unit).

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Lesson Ten : **Subtracting to the Thousandths Place**

Week ..... Date: / /

Class performance

Activity (1): Domino Game:

Share with your classmate to play with the Domino game for the decimal numbers:

5.492 – 4.276	1.83
9.854 – 8.024	11.15 – 9.32
9.348 – 4.219	5.129
8.345- 3.216	1.216

Activity (2): My Doll:

Share with your classmates in the group in My Doll game:
Two numbers ,their sum equals 18.056 and one of them is 6.513 , what is the other number?



Home performance: (Home Work)

Answer the following questions:

1) How much is the result of subtracting: (32 hundredths – 18 thousandths) in the form of thousandths?
2) How much is the number (7 tenths – 3 hundredths) in the form of hundredths?
3) Find the result: 0.836 – 0.604
4) Which is greater: (3.061 – 1.206) or 2.845
5) Find the result: 3.241 – 1.149

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Lesson Eleven : **Decimal Story Problems**

Week .....

Date: / /

Class performance

Activity (1): The Bird and the Fruit:

If the mass of the fruit, cage, and bird is 6.45 kg, and the mass of the fruit and cage is 6.19 kg, share with your classmate to find the mass of the bird.



Activity (2): Discovering Error Game:

Share with your classmates in the group analyzing the error in Mohammed's answer: Basma has 12.25 pounds, and her brother Bassem has 15.75 pounds. Find the total amount they have together

Mohamed's Answer:

$$\begin{array}{r} 15.75 \\ -\ 12.25 \\ \hline 30.05 \end{array}$$

What is wrong?	What is the correct answer?

Home performance: (Home Work)

Answer the following questions:

1) Ahmed has 45.25 pounds and his brother Omar has 14.75 pounds, what is the difference between what they have?
2) A truck carries 35.56 tons of fruit and 26.38 tons of vegetables, what is the total weight in tons in the truck?
3) Two pieces of cloth, the length of the first piece is 18.5 meters and the length of the second piece is 25.8 meters, find the difference between the lengths of the two pieces.
4) Asma went to the market and bought 6.89 kilograms of potatoes and 4.63 kg of meat. Find the total mass of what Asma bought.
5) Samir bought trousers and a shirt, if the price of the trousers is 345.057 pounds, and the total amount he paid was 700 pounds, what is the price of the shirt?

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Week …….. - Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) The result of estimating the subtraction of the following decimal numbers using the first digit on the left estimation strategy : 43.85 – 20.34 is …….
   a) 60 **b) 40** **c) 20** **d) 23**

Second: Answer the following questions:

2) Find the result of estimating the subtraction of the following decimal numbers using rounding to the nearest whole number strategy: 9.34 – 7.81
3) Find the result: **4.874 – 2.694**
4) find the result :
   45 thousandth - 23 thousandth
5) Sammy bought two silver rings, the mass of the first is 5.845 grams, and the mass of the second is 8.452 grams. Calculate the total number of grams that Sammy bought of silver.

Model (B)

First: Choose the correct answer from those given:

1) The result of estimating the subtraction of the following decimal numbers using rounding to the nearest unit strategy: 43.85 – 20.34 is …….
   a) 60 **b) 63** **c) 20** **d) 24**

Second: Answer the following questions:

2) Salem bought a can of cheese for 45.456 pounds and a can of jam for 36.234 pounds. Calculate the total amount Salem paid.
3) Find the result: **0.745 – 0.582**
4) find the result :
   67 hundredth - 35 hundredth
5) Find the result of estimating the subtraction of the following decimal numbers using the rounding strategy to the nearest tenth: 8.45 – 6.81

Model (C)

First: Choose the correct answer from those given:

1) The result of estimating the subtraction of the following decimal fractions using the first digit on the left estimation strategy : 65.934 –34.528 is …….
   a) 30 **b) 31** **c) 90** **d) 99**

Second: Answer the following questions:

2) Hossam bought a tilapia fish with a mass of 1.634 kilograms and a mullet fish with a mass of 2.713 kilograms. Calculate the total number of kilograms of fish that Hossam bought.
3) Find the result: **5.348 – 3.517**
4) find the result :
   56 thousandth - 27 thousandth
5) Find the result of estimating the subtraction of the following decimal numbers using the rounding strategy to the nearest tenth: 7.62 – 4.46

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Unit : Two

Lesson One : Expressions, Equations, and Variables

Week .....

Date: / /

Class performance

Activity (1): The Mathematical Code:

Join each card with the appropriate phrase below:

1) The price of a pencil is M pounds. What is the price of 10 pencils?
2) You have M apples, you ate 9 of them, and 10 remain.
3) You have 7 notebooks, then you bought an additional M notebook, so, you have 10 notebooks now

M – 9 = 10

7 + M = 10

10 M

Activity (2): Shopping:

If you bought a bag for 285 pounds and shoes for x pounds, and the total price of the bag and shoes together is 685 pounds. Share with your neighboring colleague the equation that represents the total price of the bag and shoes.





Activity (3): Puzzles and Challenges:

The height of sand dunes in a certain desert area ranged from 5 meters to 35 meters, Collaborate with your classmates in the group to express the difference between the tallest and shortest sand dune in this area in terms of variables



Home performance: (Home Work)

Answer the following questions:

1) Identify the variable in the equation n – 5 + 3 = 15.
2) What does the mathematical statement y + 4 = 15 represent?
3) Write an equation that expresses: Two numbers their sum is 228, and one of them is 5.9 What is the other number?
4) Write an equation that expresses: 7.3 is subtracted from a number and the results was 4.6. What is this number?
5) Write an equation that expresses: Mohamed's library has 5 stories about birds and 3 stories about fish. What is the total number of stories?

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Lesson Two : **Variables in Equations**

Week ..... Date: / /

Class performance

Activity (1): Trip to the Amusement Park:



Amir planned a trip to the amusement park. If he had 650 pounds and spent 235 pounds on some games and bought a meal that cost 125 pounds, express with variables and equations the remaining amount that Amir had at the end of the trip.

Activity (2): Ornamental Fish:





If the length of fish (B) is 0.08 meters longer than the length of fish (A). Collaborate with your neighboring classmates to write the equation that expresses the length of fish (B), and what is its length?
(Knowing that the length of fish (A) is 32 cm).

Activity (3): Billiards:

Mohamed scored 150 points in billiards game distributed as in the following table:

Ball	White	Red	Black
Number of points	35	77	……..



Collaborate with your classmates in the group to express with equations the number of points scored with the black ball.

Home performance: (Home Work)

Answer the following questions:

1) If : $h + 2.3 = 6.1$, what is the value of h?
2) If : $348.06 - m = 100.01$, what is the value of m?
3) Calculate the value of the variable X in the equation: $X + 245 = 2{,}000$
4) Find the value of the variable s in the equation: $4.03 + 3.7 = s + 1.8$
5) A bag contains a bottle of mass 335 grams, two apples of mass 230 grams, and a meal. If the total masses of the bag with its contents is 1.2 kilograms, use the equations to calculate the mass of the meal.

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Lesson Three : **Telling Stories with Numbers**

Week ..... Date: / /

Class performance

Activity (1): The Importance of Reading:



You have a story consisting of 31 pages, from which you read 10 pages on the first day and 7 pages on the second day. Express with variables and equations the number of pages that have not been read in the first and second days.

Activity (2): The Delicious Meal:

The preparation of a snack for one person requires adding the following ingredients:

Ingredients	Sugar	Vanilla	Flour
The amounts in grams	40	5	120

Share with your neighboring classmate in writing the equation that expresses the components of a similar meal sufficient for two people.

Activity (3): Innovate and Discover:



If we need 12 meters of wood to build a flower bed, and we have 3.5 meters of wood. In collaboration with your group classmates , express with equations the number of meters of wood we need to complete the construction of the flower bed.

Home performance: (Home Work)

Answer the following questions:

1) If : m + 3.75 = 13.5 , what is the value of m?
2) If : 125.6 – x = 48.9 , what is the value of x?
3) Calculate the value of the variable z in the equation: z – 0.8 = 4.05
4) The height of one mountain peak is 45 meters, while the height of another mountain peak is 23.25 meters. Write the equation that expresses the difference between the heights of the two peaks.
5) Write a word problem that represents the following equation and then solve it:
   X = 120.5 – 12.5

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Week …….. - Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) The variable in the equation: $2.3+m=4.7$ is ……..
   a) 4.7 **b)** m **c)** 2.4 **d)** 2. 3

Second: Answer the following questions:

2) If: 45.6 + S = 100.01 , then the value of S ?
3) Identify the variable in the equation: A = 7.3 + 4.5
4) Write an equation using a variable to represent this situation: The sum of two numbers is 10, and one of them is 5.3
5) One house is 35.5 meters tall, while another house is 29.25 meters tall. Write the equation that expresses the difference between the heights of the two houses.

Model (B)

First: Choose the correct answer from those given:

1) The variable in the equation: s – 0.5 = 2.4 + 3 is ……..
   a) s **b)** 3 **c)** 2.4 **d)** 0.5

Second: Answer the following questions:

2) If: 46.6 + L = 100.01 , then the value of L ?
3) Identify the variable in the equation: L + 0.75 = 100
4) Write an equation using a variable to represent this situation: The sum of two numbers is 11, and one of them is 7.5
5) One house is 33.5 meters tall, while another house is 40.25 meters tall. Write the equation that expresses the difference between the heights of the two houses.

Model (C)

First: Choose the correct answer from those given:

1) The variable in the equation: 10 – 0.5 = y + 3 is ……..
   a) 3 **b)** 0.5 **c)** 10 **d)** y

Second: Answer the following questions:

2) If: 55.6 + M = 100.01 , then the value of M ?
3) Identify the variable in the equation: Z + 12 = 90
4) Write an equation using a variable to represent this situation: The sum of two numbers is 35, and one of them is 10.01
5) One house is 25.5 meters tall, while another house is 31.25 meters tall. Write the equation that expresses the difference between the heights of the two houses.

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Lesson Four : **Prime Factorization**

Week .....

Date: / /

Class performance

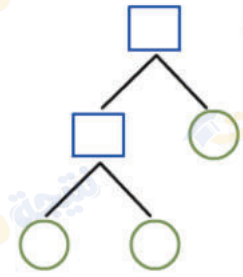
Activity (1): Observe and Color:

Observe the number cards and color the prime number in red and the composite number in blue.

3	4	8	7	5	12

Activity (2): Primary Factors Factory:

You and your colleague have a factory for producing prime factors, where the composite number can be broken down into its prime factors inside this factory. Collaborate with your colleague to break down the numbers 18, 28, 40 and 54 into their prime factors using a suitable strategy inside this factory.



Activity (3): Treasure Box:

To open the treasure box, you must solve the following codes:

A) A number whose sum of prime factors equals 7

B) A number whose sum of prime factors equals 9

C) A number whose sum of prime factors equals 10

In cooperation with your colleagues in the group, find a solution for the codes needed to open the treasure.



Home performance: (Home Work)

Answer the following questions:

1) Write the prime factors of the number 8

2) What are the prime factors of the number 18?

3) Find the number whose prime factors are 3, 3 and 5

4) Find the prime factors of the number 28

5) Decompose the number 72 into its prime factors.

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Lesson Five : **Greatest Common Factor (GCF)**

Week ..... Date: / /

Class performance

Activity (1): Identical Gift Boxes:

You have 30 pens and 45 notebooks. Explain how you can place the largest number of gift boxes so that each box contains the same number of pens and the same number of notebooks without any remainder.



Activity (2): Garden Division:

A garden in the shape of a rectangle with dimensions of 18 m and 12 m. Share with your classmate how to divide the garden into the largest number of equal squares without any remainder.



Activity (3): Candy Distribution:

You have 24 pieces of chocolate and 36 pieces of biscuits. Share with your classmates in the group how to distribute these pieces equally among your friends so that each friend receives the same number of chocolates and biscuits.



Home performance: (Home Work)

Answer the following questions:

1) Find the Greatest Common Factors (GCF) of the two numbers 9 and 12
2) Find the Greatest Common Factors (GCF) of the two numbers 48 and 36
3) Find the Greatest Common Factors (GCF) of the two numbers 15 and 35
4) What is the prime number, whose sum of prime factors equals 12
5) Find the Common Factors of the two numbers 25 and 20, then find the Greatest Common Factors (GCF) of the two numbers

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Lesson Six & Lesson Seven : **Identifying Multiples & Least Common Multiple (LCM)**

Week ..... Date: / /

Class performance

Activity (1): Train Trips:

A train passes through the station every 10 minutes. Complete the following table by writing the times of five consecutive trains:

First Train	Second Train	Third Train	Fourth Train	Fifth Train
7:00 AM				

Activity (2): Tree Planting on Roads:

You and your classmate are planting trees along a 100-meter road, with a distance of 5 meters between each two trees. Share with your classmate in determining the position of the fourth and fifth trees on the number line with the first tree located at the point 0



Activity (3): Competition Guide:



There are three different sports competitions held regularly, but each has a different schedule:

- The running competition takes place every 2 hours.
- The swimming competition takes place every 3 hours.
- The cycling competition takes place every 4 hours.

Assuming that all competitions started at the same time (01:00), Collaborate with your classmates to determine the soonest time these competitions coincide.

Home performance: (Home Work)

Answer the following questions:

1) Find three multiples of the number 5
2) Find four multiples of the number 6
3) Find the first five Common Multiple of the two numbers 2 and 3
4) Find the Least Common Multiple (LCM) of the two numbers 5 and 10
5) Find the Least Common Multiple (LCM) of the two numbers 3 and 8

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Exercises on the end of the First Month

First: Choose the correct answer from the given options:

(1) The digit lies in the hundredth position in the number 0.367 is ……

(a) 8 (b) 6 (c) 3 (d) 7

(2) 9 tenths, 5 hundredth and 3 thousandth = ……..

(a) 0.359 (b) 0.539 (c) 0.935 (d) 0.953

(3) If the decimal number 4.56 is multiplied by 10, the result will be …..

(a) 0.456 (b) 45.6 (c) 40.56 (d) 4.560

(4) If the decimal number 7.23 is multiplied by 10 ,then the value of the digit 2 will be …..

(a) 20 (b) 2 (c) 0.2 (d) 0.02

(5) 6 + 0.2 + 0.07 + 0.004 = ……

(a) 6.724 (b) 6.742 (c) 7.247 (d) 6.274

(6) $8 + 0.3 + \frac{5}{100} + \frac{7}{1,000}$ = ……

(a) 7.538 (b) 8.753 (c) 8.357 (d) 7.835

(7) 3.405 > ……

(a) 3.504 (b) 5.240 (c) 3.240 (d) 4.530

(8) Which of the following decimal numbers is the greatest?

(a) 0.8 (b) 0.18 (c) 0.08 (d) 1.8

(9) Which of the following decimal numbers is the smallest?

(a) 12.33 (b) 12.30 (c) 12.03 (d) 12.13

(10) 13.623 ≈ …… (to the nearest hundredth)

(a) 13.6 (b) 13.5 (c) 13.62 (d) 13

(11) The result of estimating the addition of 3.08 + 7.324 using the first digit on the left estimation strategy equals …….

(a) 4 (b) 10 (c) 11 (d) 11.382

(12) The number 40 is a common multiple for the two numbers …... , ……

(a) 4 , 7 (b) 6 , 5 (c) 8 , 4 (d) 4 , 6

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Second: Answer each of the following:

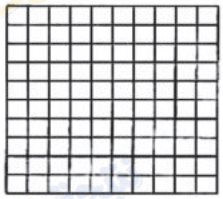
1) find the result of: 6.372 + 2.584 = ...
2) find the result of: 34 hundredth – 15 hundredth = ...
3) With Ahmed, there is a bag of oranges of mass 6.309 kilograms and a bag of apples of mass 3.932 kilograms, so find the total mass he has in kilograms
4) Which of the following represent an equation?
   a) x + 24 = y b) 2x + 8
5) Find the value of A in the equation: 5.402 – A = 2.230
6) Find the smallest odd prime number
7) What is the number whose prime factors are 2 , 3 and 3
8) Two numbers, the prime factors of the first are (2 , 2 , 3) and the prime factors of the second are (2 , 3 , 3), then find the greatest common factor of the two numbers
9) "Mention three multiples of the number 3."
10) "Mention three multiples of the number 7."
11) Write the fraction $\frac{264}{1{,}000}$ in a form of a decimal fraction.
12) Find the result of: 0.459 × 100
13) Find the result of: 7.23 ÷ 10
14) A factory owner divides 9,568 pounds equally among 10 workers. Calculate the share of each worker.
15) Determine what happens to the digits in the number 3.675 when multiplied by 10
16) Write the decimal number 9.358 in expanded form.
17) Decompose the number 0.247
18) Compose the number: $(9 \times \frac{1}{1{,}000}) + (5 \times \frac{1}{10}) + (6 \times 1)$
19) Express the number 4.369 in a place value table, and then decompose it in three different ways.

Ones		.	Decimals		
T	O	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			

20) Compare between the two decimal numbers: 4.895 and 4.598
21) Compare between: (3 tenths, 7 hundredths and 2 thousandths) and 3.217
22) Arrange ascendingly: 3.408 , 6.097 , 3.804 and 6.907
23) Write a decimal number greater than the decimal number 6.324 just in hundredth.
24) Round the number 22.624 to the nearest tenth

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25) Round the number 12.34 to the nearest unit
26) Round the number 7.346 to the nearest hundredth
27) Round the number 6.9832 to the nearest thousandth
28) Determine the type of rounding applied to the number 6.653 to be 6.7
29) Estimating the addition operation: 4.823 + 3.157 using rounding strategy to the nearest tenth, then find the sum
30) Estimating the addition operation: 6.341 + 4.912 using the first digit on the left estimation strategy, then find the sum
31) Estimate the addition operation: 3.452 +7.231 using a preferred strategy, then find the sum.
32) Find the result of : 0.15 + 0.45 using the given model



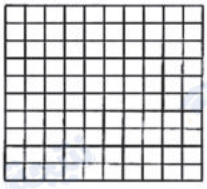
33) Find the result of : 7.345 + 2.274 using the place value table:

Ones		.	Decimals		
T	O	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			

34) Find the result of subtracting each of the following using the standard algorithm:

a) 5.392 + 3.514 b) 12.631 + 34.259

35) Find the result of : 0.65 – 0.22 using the given model



36) Find the result of subtracting each of the following using the standard algorithm:

a) 5.592 - 3.584 b) 34.259 - 12.137

37) Huda bought a silver ring of mass 3.245 grams, and Mona bought a chain of mass 5.318 grams. Calculate the difference between the two masses, then find the actual difference between the masses.
38) A road is 35.347 kilometers long, and the train has covered 22.192 kilometers of it. Calculate the remaining distance.
39) Seham has 25.25 pounds, and her sister Asma has 19.75 pounds. Find the total amount they both have.
40) Write the equation that represents: The sum of two numbers is 28.73. If the first number is 15.06, what is the other number?

41) Mohamad caught a fish of mass 1.367 kilograms, and another fish of mass 1.529 kilograms. Mohamad wrote the following equation: X = 1.367 + 1.529. Write what X represents.
42) Find the value of the unknown in the following equations using the part-to-whole bar model

a) D – 2.405 = 3.712 b) 5.391 + N = 8.207

43) Find the least common multiple of the numbers:

a) 14 and 21 b) 42 and 30 c) 48 and 36 d) 5 and 11

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Lesson Eight : **Factors or Multiples?**

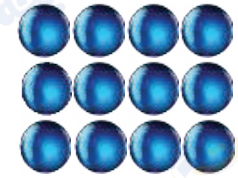
Week .....

Date: / /

Class performance

Activity (1): Game Maker:

Illustrate with a drawing the different ways to arrange 12 glass balls into boxes equally without any remainder. Did you use factors or multiples?



Activity (2): Decoration Ribbon:

You and your classmate are connecting ribbons, each 8 meters long, to create a colored ribbon to decorate the classroom. Complete the following table:

Length of 1st ribbon	2nd ribbon	3rd ribbon	4th ribbon	5th ribbon	6th ribbon
8					

Did you use factors or multiples?

Activity (3): School Party:

At a school party, we had 48 seats and we want to arrange them in equal rows. Share with your classmates the different methods of organizing these seats.

Did you use factors or multiples?

Home performance: (Home Work)

Answer the following questions:

1) Find the Greatest Common Factors (GCF) of the two numbers 10 and 12
2) Find the least common multiple (LCM) of the two numbers 10 and 12
3) Find the prime number, the sum of its factors equals 12
4) Find the greatest common factor and the least common multiple of the two numbers 8 and 12
5) Find the (GCF) and (LCM) of the two numbers 10 and 15

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Unit : Three

Lesson One & Lesson Two : Using the Area Model to Multiply & The Distributive Property of Multiplication

Week .....

Date: / /

Class performance

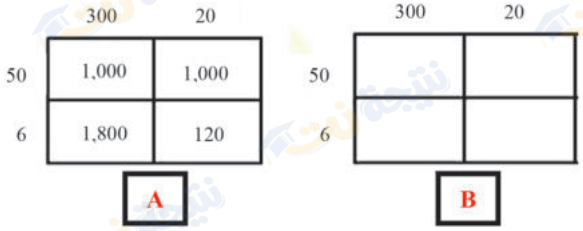
Activity (1): Advertisement Board:



You and your colleague are dividing a rectangular advertisement board with dimensions 85 cm by 375 cm. Work with your colleague to find the area of each section of the board, then calculate its total area using the opposite rectangle area model.

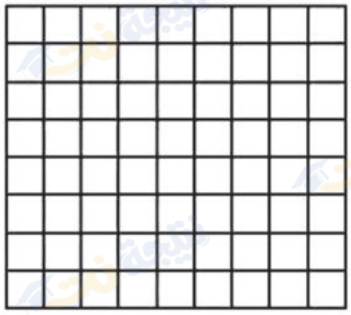
Activity (2): Key to Success:

Analyze the errors in Model (A) and correct them using Model (B).



Activity (3): Using the Distributive Property:

Share with your colleague how to find the product of 9×8 using the distributive property. (Express it using colors in the corresponding grid).



Home performance: (Home Work)

Answer the following questions:





1) Using the model, find the product: 11×12
2) Using the model, find the product: 23×25
3) Using the rectangle area model, find the product: 89×75
4) Find the unknown number in the following: $23 \times 125 =$ $23 (\ldots\ldots + 20 + 5)$
5) Using the distributive property, find the product: 42×43.

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Lesson Three : **Multiplying by a 2-digit number using the algorithm**

Week ..... Date: / /

Class performance

Activity (1): Children's Toys:

In one of the toy stores, calculate the cost of each of the following using the distribution property, and then verify your answer using the standard algorithm:

a) Six teddy bear toys.

b) Eight doll toys.



328 LE



245 LE

Activity (2): New Challenge:

The opposite shape shows a dining table with dimensions of 75 cm and 130 cm.

Share with your colleague in calculating the area of glass needed to cover the surface of this table.



Activity (3): Frame of Creativity:

A wall frame in the shape of a rectangle with dimensions of 87 cm and 113 cm. If we want to design a wooden frame for it, share with your classmates in calculating the appropriate length of wood to design the frame. And if the price per meter of wood needed to design the frame is 35 pounds, what is the total cost?

(Use different strategies



Home performance: (Home Work)

Answer the following questions:

Find the value of:

1) 32 × 58

2) 219×41

3) Using the standard algorithm, find the product: 237 × 24

4) Using your preferred strategy, find the product: 306 × 19

5) Hossam drives his car for a distance of 60 kilometers every day. How many kilometers will he drive his car in 187 days?

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Week …… - Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) The least common multiple of the two numbers 3 and 5 is ……..
   a) 10 **b) 15** **c) 20** **d) 25**

Second: Answer the following questions:

2) Find the product of 32 × 54
3) Using the rectangle area model, find the product of : 42× 326
4) Using the distributive property, find the product of: 92× 83
5) Ahmad trains every 3 days, while Osama trains every 4 days. Both friends are training together today. How many days will pass until they train together for the second time? Do you need to use LCM or GCF?

Model (B)

First: Choose the correct answer from those given:

1) The least common multiple of the two numbers 4 and 6 is ……..
   a) 8 **b) 10** **c) 22** **d) 24**

Second: Answer the following questions:

2) Fine The product of 34 × 52
3) Using the rectangle area model, find the product of : 62× 432
4) Using the distributive property, find the product of: 29× 38
5) Ahmad trains every 3 days, while Osama trains every 2 days. Both friends are training together today. How many days will pass until they train together for the second time? Do you need to use LCM or GCF?

Model (C)

First: Choose the correct answer from those given:

1) The least common multiple of the two numbers 5 and 6 is ……..
   a) 35 **b) 30** **c) 25** **d) 20**

Second: Answer the following questions:

2) Find the product of 32 × 45
3) Using the rectangle area model, find the product of : 26× 234
4) Using the distributive property, find the product of: 28× 39
5) Ahmad trains every 5 days, while Osama trains every 3 days. Both friends are training together today. How many days will pass until they train together for the second time? Do you need to use LCM or GCF?

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Lesson Four & Lesson Five : **Multiplying Multi-Digit Numbers & Multiplication Problems in the Real World**

Week .....

Date: / /

Class performance

Activity (1): The ideal model:

Share with your colleague and complete the rectangle area model, then find the product.

	8,000	200	20	2
50				
4				

8,222 × 54 = ----------

Activity (2): Mona's Restaurant:

Amal and her friend Sarah solved the following problem:

Mona owns a restaurant in the city of Al-Qusayr - a tourist city located on the Red Sea coast - in February, Mona sold 402 pieces of kebab. In March, she sold 753 pieces. Each piece of kebab contains 83 grams of meat. How many grams of meat did Mona use in February and March? Collaborate with your group members to discuss Amal and Sarah's solution and find out which of the solutions is correct and why?

Amal's Answer	Sarah's Answer
402 × 83 = 33,366 gm 753 × 83 = 62,499 gm Total = 33,366 + 62,499 = 95,865 gm	83 × (402 + 753) = 1,155 × 83 = 95,865 gm

Home performance: (Home Work)

Answer the following questions:

Use various strategies to find the result of the following:

1) **a) 234 × 53** **b) 7,630 × 42**
2) Mona uses 6 lemons for every liter of lemon juice. She prepares 8 liters of juice daily. How many lemons has Mona used after 365 days?
3) Mona uses 1,133 grams of sugar daily. How many grams of sugar does she use in 30 weeks?
4) In a shopping visit, Omran and his friends bought 18 T-shirts, each costing 265 pounds, and 13 pants, each costing 370 pounds. What is the total shopping cost?
5) Salem told his classmates that the following statement is true: 4,120 × 74 > 6,820 × 45. Do you agree with Salem or not? And why?

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Unit : Four

Lesson One : Dividing Using Area Model

Week .....

Date: / /

Class performance

Activity (1): Multiplication cards:

Collaborate with the members of your group to select one of the multiplication cards from group (1) and then choose the correct output card from group (2).

Group (1): 13 × 6 | 13 × 60 | 13 × 600

Group (2): 600 | 7,800 | 78

Activity (2): Division Smartly:

Collaborate with your group members and use the rectangle area model to find the result of the following:

a) 2,646 ÷ 16 = ...

b) 4,285 ÷ 25 = ...

Home performance: (Home Work)

Answer the following questions:

use the rectangle area model to find the result of the following:

1) 3,813 ÷ 31
2) 5,126 ÷ 22
3) 6,588 ÷ 18
4) Khalid said that when dividing 4,715 by 15, the result is 205 with a remainder of 0. Is Khalid's answer, correct? And why?
5) Ahmed said that when dividing 7,224 by 28, the result is 257 with a remainder of 0. Is Ahmed's answer, correct? And why?

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Lesson Two : **Estimating Quotients**

Week ..... Date: / /

Class performance

Activity (1): Estimation Game:

Collaborate with your colleagues in the group to o ensure the accuracy of the estimate; if it's not correct, find the correct estimate.

585 ÷ 21	
Estimation	500 ÷ 20
The result after estimation	100

715 ÷ 11	
Estimation	700 ÷ 10
The result after estimation	70

893 ÷ 28	
Estimation	800 ÷ 20
The result after estimation	80

Activity (2): Verification Game:

Find the closest estimation for the division operation, and then find the actual result.

a) 624 ÷ 13

Estimation: .....
Result: .....

b) 3,075 ÷ 25

Estimation: .....
Result: .....

Home performance: (Home Work)

Answer the following questions:

Find the closest estimation for the division operation, and then find the actual result.

1) **726 ÷ 22**
2) **836 ÷ 44**
3) **1,134 ÷ 18**
4) **819 ÷ 21**
5) **899 ÷ 29**

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Week ..... -Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) The closest estimation for the multiplication operation: 3,324 × 12

a) 60,000 b) 20,000 c) 30,000 d) 90,000

Second: Answer the following questions:

2) 75 ÷ 8,625?

3) A worker in a wood factory works 128 hours monthly. If there are 12 workers in the factory work the same number of hours, how many hours do all the workers work in a month?

4) Estimate the result and then find the actual result using the rectangle area model for the following problem: 9,375 ÷ 75.

5) Ahmed says that 22 × 242 will give the same result as 44 × 121. Do you agree with him? Check your answer

Model (B)

First: Choose the correct answer from those given:

1) The closest estimation for the multiplication operation:6,824 × 19

a) 180,000 b) 140,000 c) 100,000 d) 6,000

Second: Answer the following questions:

2) 65 ÷ 7,605 ?

3) A shipping company delivered 56 boxes, the weight of each is 135 kilograms. What is the total weight of the whole boxes?

4) Estimate the result and then find the actual result using the rectangle area model for the following problem: 8,475 ÷ 75.

5) Aisha says that 13 × 422 will give the same result as 26 × 211. Do you agree with her? Check your answer

Model (C)

First: Choose the correct answer from those given:

1) The closest estimation for the multiplication operation:2,742 × 33

a) 60,000 b) 10,000 c) 90,000 d) 120,000

Second: Answer the following questions:

2) 34 ÷ 7,242

3) A bookstore sells a notebook for 18 pounds. A school bought 275 notebooks for the whole students. How much did the school spend?

4) Estimate the result and then find the actual result using the rectangle area model for the following problem: 8,550 ÷ 75.

5) Abd Elrahman says that 11 × 622 will give the same result as 22 × 311. Do you agree with him? Check your answer

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Lesson Three : **Using the Division Algorithm**

Week .....

Date: / /

Class performance

Activity (1): The Answer Key:

Collaborate with your group members to solve the following division problems using the standard division algorithm:

1) $14 \overline{)1{,}554}$

2) $12 \overline{)4{,}512}$

3) $34 \overline{)7,548}$

Activity (2): Continue your journey:

Using the strategy you prefer, collaborate with your nearby colleague and complete the following problems:

1) 7,344 ÷ 18 = ...

2) 4,554 ÷ 26 = ...

Home performance: (Home Work)

First: Use the standard division algorithm to find the result:

1) $29 \overline{)7{,}371}$

2) $17 \overline{)6{,}273}$

Second: Place the appropriate sign > , < or = :

3) **2,256 ÷ 12** ◯ **223**

4) **4,104 ÷ 19** ◯ **199**

5) **609 ÷ 21** ◯ **28**

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Lesson Four : The relation between division and multiplication

Week .....

Date: / /

Class performance

Activity (1) : The Checking Game:

Collaborate with your group members to find the result of the following, check your answer using the multiplication operation:

a) 4,505 ÷ 17 = ...

b) 6,963 ÷ 33 = ...

Activity (2): Reliable results:

Collaborate with your nearby colleague to ensure the correctness of the quotient

1) 130) 3,250 (25

2) 144) 5,184 (36

Home performance: (Home Work)

First: ensure the correctness of the quotient

1) 130) 4,250 (25

2) 156) 5,616 (36

Second: Put the appropriate sign > , < or = :

3) **4,642 ÷ 22** ◯ **122 × 21**

4) **1,995 ÷ 15** ◯ **15 × 130**

5) **8,480 ÷ 40** ◯ **212 × 40**

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Lesson Five : **Multistep Story Problems**

Week .....

Date: / /

Class performance

Activity (1) : The Checking Game:

Find the result of the following, then check your answer using multiplication:

a) A company produces 920 candy pieces during a week and wants to package its monthly production in boxes, each containing 16 pieces. How many boxes does the company need in a month?

b) A library has 1,250 history books and 1,150 science books. If the employees want to distribute all the books evenly on 25 shelves, how many books will be on each shelf?

Activity (2): Calculate intelligently:

Find the result of the following:

a) 6,777 ÷ 27 = ...

b) 9,933 ÷ 33 = ...

Home performance: (Home Work)

Answer the following questions:

Find the result of the following, and then check your answer using multiplication:

1) A teacher collected 1,625 pounds from the students as donations in one month, then collected 650 pounds in the following month, and then decided to distribute the amount equally among 13 beneficiaries. How much will each beneficiary receive?

2) A school has 2,142 students, and the school administration wanted to divide them equally among 34 classrooms. How many students will be in each classroom?

3) A merchant collected 2,800 kilograms of wheat, he gave one shop 1,750 kilograms, and distributed the remaining amount equally among 15 trucks. How many kilograms did each truck carry?

Find the result of the following:

4) 8,631 ÷ **21**

5) 8,388 ÷ **36**

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Week …… -Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) Which of the following statements is correct?

a) 25 ×111 = 2,775 b) 111 ÷25 = 2,775 c) 40 ×20 = 400 d) 30 ×30 = 600

Second: Answer the following questions:

2) Find The quotient of : 935 ÷ 17

3) If: 14 × 136 = 1,904, then: 1,904 ÷..... = 14

4) Find the quotient of the following division using the standard division algorithm: 9,180 ÷ 18

5) A total of 2,679 test papers were printed, and the papers were placed in files, each containing 25 sheets. After filling the files, some sheets remained without a file. How many complete files are there? And how many sheets are left?

Model (B)

First: Choose the correct answer from those given:

1) If: 71 × 83 = 5,893, then: 5,893÷71=……..

a) 38 b) 83 c) 11 d) 5

Second: Answer the following questions:

2) find the result of : 308 ÷ 7

3) Find the quotient of the following division using the standard division algorithm: 504 ÷ 14

4) Find the quotient of the following division using the standard division algorithm: 7,157 ÷ 23

5) There are 2,520 copies of a book in the printing house, and you want to distribute them equally among 36 libraries. How many copies will each library receive?

Model (C)

First: Choose the correct answer from those given:

1) 405÷9 = ……

a) 54 b) 45 c) 5 d) 4

Second: Answer the following questions:

2) Find the quotient of : 513 ÷ 19

3) If the quotient of 954 ÷ 15 is 63 , then what is the result of : 15 × 63

4) Find the quotient of the following division using the standard division algorithm: 5,490 ÷ 45

5) There are 4,875 pieces of chocolate, and they are packed into boxes containing 24 pieces each. The seller wants to pack as many full boxes as possible. How many boxes can he pack? And how many pieces will he have left?

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Unit : Five

Lesson One : Multiplying by Powers of Ten

Week .....

Date: / /

Class performance

Activity (1): Pay with the Power of 10:

Collaborate with the members of your group and complete the following table:

The original number	Multiplied by	The Result
4.25	10	
4.25	100	
4.25	1,000	
4.25	0.1	
4.25	0.01	

Activity (2): Correct Understanding:

Share with your neighbor colleague and make sure you understand, then mark (✓) or (X):

a) $3 \times 0.1 = 0.3$ ( )

b) $13.6 \times 1{,}000 = 136$ ( )

c) $2 \times 10 = 20$ ( )

d) $8 \times 0.001 = 0.008$ ( )

Home performance: (Home Work)

Answer the following questions:

1) 14.5×0.01

2) 14.5×0.1

3) 14.5×10

4) 14.5×100

Check your understanding:

5) What is the difference between the results of the following?

(4.12×0.1) , (4.12×10)

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Lesson Two : **Multiplying Decimals by Whole Numbers**

Week ..... Date: / /

Class performance

Activity (1): Communication Game:

Collaborate with members of your group and join each decimal number from the second row with the product that equals it from the first row:

5 × 0.5	**5 × 0.45**	**9 × 0.015**	**12 × 4.15**
2.25	**49.8**	**2.5**	**0.135**

Activity (2): Your Decision Makes a Difference:

Share with your neighboring classmate and choose the appropriate number for the following multiplication problem:

1) **0.6 × 4 = ……..**

a) 4.2 b) 0.24 c) 4.2 d) 24

2) **2.5 × 3 = …….**

a) 0.075 b) 7.5 c) 0.01 d) 75

3) **3.2 × 7 = …….**

a) 22.4 b) 2.04 c) 0.24 d) 224

Home performance: (Home Work)

First: Put the appropriate sign > , < or = :

1) **8 × 0.7** ◯ **0.6 × 0.5**

2) **0.6 × 1.3** ◯ **4 × 1.6**

3) **1.5 × 9** ◯ **5.5 × 6**

4) **0.7 × 44** ◯ **4.4 × 7**

Second: Think then Answer:

5) If: 2 × **1.5 = 3 , then** : 4 × **1.5 = ……**

- What is the relation between the two results? ……

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Lesson Three : **Multiplying Tenths by Tenths**

Week .....

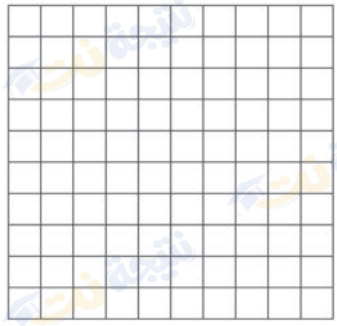
Date: / /

Class performance

Activity (1): Challenge the Decimal Models:

Collaborate with your group members. Use coloring on the decimal model with two different colors to find the result.

a) 0.4×0.6



b) 0.5×0.7



Activity (2): The Tricky Decimal Point:

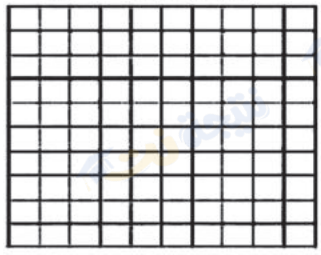
Share with your nearby colleague and try to solve it.

1) $0.6 \times 0.2 = \ldots\ldots$
2) $0.3 \times 0.8 = \ldots\ldots$
3) $0.6 \times 0.3 = \ldots\ldots$
4) $0.7 \times 0.4 = \ldots\ldots$

Home performance: (Home Work)

Find the result of the following using the decimal model:

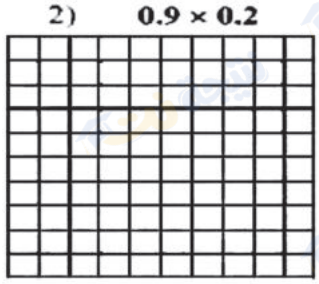
1) 0.8×0.9



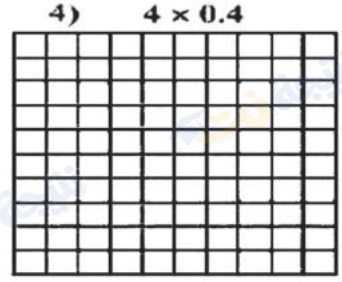
3) 3×0.6



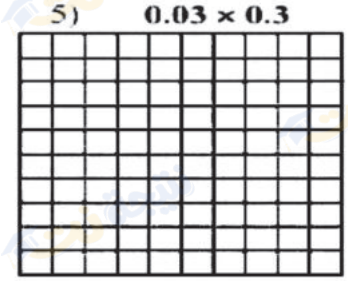
2) 0.9×0.2



4) 4×0.4



5) 0.03×0.3



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Week …….. -Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) $0.7 \times 0.7 =$ ……

a) 0.049 b) 0.49 c) 49 d) 4.9

Second: Answer the following questions:

2) Find the result of $9 \times 1.2 =$ ……
3) How do the decimal point moves when multiplying 3.5×10
4) Calculate the result of: 1000×4.25
5) Explain using decimal grid , how to find the result of: 0.6×0.8

Model (B)

First: Choose the correct answer from those given:

1) $8 \times 3.4 =$ ……

a) 0.272 b) 2.72 c) 272 d) 27.2

Second: Answer the following questions:

2) Find the result of 0.4×0.9 ?
3) How do the decimal point moves when multiplying 100×5.91
4) Calculate the result of: $6.325 \times 100 =$ ……
5) Explain using decimal grid , how to find the result of: 0.7×0.4

Model (C)

First: Choose the correct answer from those given:

1) $6 \times 0.4 =$ ……

a) 240 a) 0.24 a) 24 a) 2.4

Second: Answer the following questions:

2) find the result of 3.2×6
3) How do the decimal point moves when multiplying 5.81×0.01
4) Calculate the result of: $100 \times 34.19 =$ ……
5) Explain using decimal grid , how to find the result of: 0.9×0.3

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Lesson Four : **Multiply decimals using the area model**

Week .....

Date: / /

Class performance

Activity (1): Multiplication Pattern:

Collaborate with your group members to find the result of the following, then discover the pattern.

1) $2 \times 0.003 = \ldots\ldots$
2) $2 \times 0.03 = \ldots\ldots$
3) $2 \times 0.3 = \ldots\ldots$
4) $2 \times 30 = \ldots\ldots$
5) $2 \times 300 = \ldots\ldots$

Activity (2): Complete:

Share with your nearby colleague use the rectangle area model to find the result of the following questions.

1) 1.2×4.1
2) 1.5×9.7
3) 2.9×26.4
4) 13.8×0.17



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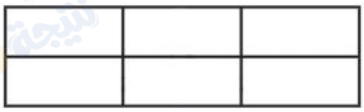
Home performance: (Home Work)

using the rectangle area model to find the result of the following questions:

1) 2.7×1.8



3) 5.14×0.91



2) 7.2×3.24



4) 1.2×6.08



5) 5.0×2.54



Lesson Five : **Multiplying Decimals through the Hundredths Place**

Week ..... Date: / /

Class performance

Activity (1): Secret Multiplication Code:

Collaborate with your group members to find the result of the following using the standard algorithm:

1) 1.23×4.5

2) 6.85×7.9

3) 9.25×3.1

4) 2.79×4.6

Activity (2): Challenge of Mathematical Intelligence:

Share with your neighboring colleague and choose the correct answer.

(1) $2.51 \times 3.8 =$ .....
(a) 95.3 (b) 953.8 (c) 9,538 (d) 9.538

(2) $4.36 \times 2.3 =$ .....
(a) 10.028 (b) 1.0028 (c) 1.008 (d) 1002.8

(3) $0.75 \times 22.1 =$ .....
(a) 16.575 (b) 165 (c) 1.654 (d) 16.575

Home performance: (Home Work)

1) 4.37×0.75

2) 6.17×2.9

3) 4.11×2.8

4) 2.5×8.25

5) 0.61×9.11

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Lesson Six : **Multiplying Decimals through the Thousandths Place**

Week .....

Date: / /

Class performance

Activity (1): Playing with cards:

Using some cards, form a decimal fraction up to a thousandth and another up to a tenth and find their product

6	0	7	4	5	2

Activity (2): Tourism in Egypt:

Omar wanted to build a tourist village, so he bought a rectangular piece of land with a length of 1.745 km and a width of 0.75 km. What is the area of the land that Omar bought? (Share with your neighboring colleague).

Activity (3): Importance of Sport:

Mahmoud runs a distance of 1.775 km daily. What distance does Mahmoud run over 15 days? (Share the answer with your colleagues)

Home performance: (Home Work)

Find the result of the following questions:

1) Determine the position of the decimal point so that the result is correct in the factors of multiplication: $17 \times 532 = 0.9044$
2) Determine the position of the decimal point so that the result is correct in the factors of multiplication: $53 \times 324 = 1.7172$
3) Use your preferred strategy to find the product: 7.3×1.287
4) Use your preferred strategy to find the product: 8.6×3.463
5) Dalia bought 1.62 kg of bananas at a price of 25 pounds per kilogram. What is the price of the bananas?

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Exercises on the end of the Second Month

First: Choose the correct answer from the given options:

(1) The (GCF) of the two numbers 6 and 9 is ……..
(a) 3 (b) 6 (c) 9 (d) 45

(2) The (LCM) of the two numbers 5 and 10 is ……..
(a) 5 (b) 10 (c) 20 (d) 50

(3) The multiplication question that represents the opposite model is ….

	30	3
20	600	60
7	210	21

(a) 33×72 (b) 33×27 (c) 72×30 (d) 7×3

(4) $(25 \times 7) + (25 \times 10) + (25 \times 100) = 25 \times$ .....
(a) 711 (b) 171 (c) 117 (d) 11.7

(5) $45 \times 99 =$ ……..
(a) 4,554 (b) 4,425 (c) 5,452 (d) 4,455

(6) The result of the estimation of 88×42 using approximation is…..
(a) 3,200 (b) 3,600 (c) 4,000 (d) 6,300

(7) The number that when divided by 32 given a quotient of 125 and a remainder of 13 is……..
(a) 6,755 (b) 6,575 (c) 4,557 (d) 4,013

(8) $4.5 \times$ ……. $= 450$
(a) 10 (b) 100 (c) 1,000 (d) 0.1

(9) $34.6 \times 5 =$ ……
(a) 123 (b) 132 (c) 213 (d) 173

(10) $0.2 \times 0.5 =$ ……..
(a) 0.1 (b) 10 (c) 1,000 (d) 100

(11) 56.8 kg = …….. gm
(a) 56.8 (b) 568 (c) 5,680 (d) 56,800

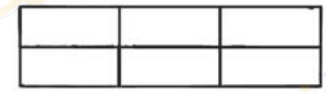
(12) If the capacity of a vessel is 3.700 mL ,then its capacity = ……. Liter
(a) 37 (b) 370 (c) 3.7 (d) 7.3

Second: Answer each of the following:

1) Find the (LCM) , (GCF) for the two numbers: 6 and 12
2) Seham wants to distribute 14 Notebooks and 42 pens equally among a group of her friends, what is the greatest number of friends she can distribute these items among them
3) Use the opposite rectangle area model to find the result of: 12×35

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4) Use the opposite rectangle area model to find the result of: 356×24



5) Using the distributive property, find the product: 531×14

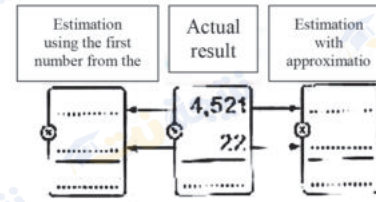
6) Find the result of the following using the standard algorism:

$$\begin{array}{r} 521 \\ \times\ 39 \\ \hline \\ + \\ \hline \end{array} \qquad \begin{array}{r} 135 \\ \times\ 14 \\ \hline \\ + \\ \hline \end{array} \qquad \begin{array}{r} 94 \\ \times\ 40 \\ \hline \\ + \\ \hline \end{array} \qquad \begin{array}{r} 85 \\ \times\ 26 \\ \hline \\ + \\ \hline \end{array}$$

7) Find the result of the following using the standard algorism:
   a) 39×45 b) 521×22

8) Find the result of the following using three different strategies
   a) 23×73 b) 381×47

9) Estimate the following multiplication operation, then find the result and compare the actual result with the result after estimation



10) A garden contains 46 rows of flowers, each row has 108 flowers, how many flowers are there in this garden?

11) Ahmed has 6,549 pounds; he bought 12 books each of price 429 pounds. Calculate the amount of money remains with him.

12) What is the number that if it divided by 44 the quotient will be 213

13) Use the rectangle area model to find the quotient of: $8,277 \div 31$

14) Find the estimation in the division operation: $9,471 \div 41$,then compare the result with the actual result

15) Find the estimation in the following division operation, then compare the result with the actual result using the rectangle area model a) $5,148 \div 12$, b) $1,620 \div 36$

16) Find the quotient for each of the following and write the remainder if it exists using the standard algorism, then check your answer using the multiplication operation:

$17\overline{)1,270}$ .....
.....

$25\overline{)2,750}$ .....
.....

$16\overline{)4,800}$ .....
.....

$32\overline{)192}$ .....
.....

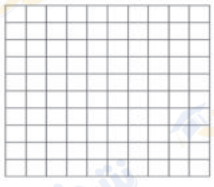
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17) Sami wants to distribute 7,617 leaves equally among 22 bags, how many leaves are there in each bag, find the remainder if exists
18) If the price of one pen is 14 pounds, how many pens can be bought with 6.370 pounds?
19) Hala has an amount of 4,000 pounds. She spent 400 pounds in the first month, and in the second month she spent 3 times what she spent in the first month. Calculate how much she has left.
20) Mona bought 75 school bags as a donation for one of the care homes. she paid 9,225 pounds. How much would she pay when buying 66 bags?
21) Ahmed purchased 22 boxes of chocolates; the total cost of the boxes was 990 pounds. If you know that the box contains 9 pieces, what is the price of one piece?
22) What is the product of the multiplicative identity element and the additive identity element?
23) If the price of one book is 75.75 pounds, what would be the price of 100 books of the same type?
24) Compare between the two numbers: (237× 0.01) and (23.7 ×100)
25) Find the result of:98.77 × 0.1
26) Use the number line to find the result of: a) 0.2 × 5 b) 0.6 × 3
27) Use the repeated addition method to find the result: 0.4 × 5
28) Find the result of the following:

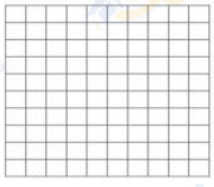
$$\begin{array}{r} 1.98 \\ \times\ 13 \\ \hline \end{array} \qquad \begin{array}{r} 5.27 \\ \times\ 2 \\ \hline \end{array} \qquad \begin{array}{r} 2.7 \\ \times\ 3 \\ \hline \end{array}$$

29) Compare the products of the following sets of numbers:
a) (7.73 × 2) and 22 b) (6.25 × 4) and (6.5 × 3)
30) Use the models to find the result of the following:

a) 0.1 × 0.6



b) 0.9 × 0.4



31) Find the result of following :

$$\begin{array}{r} 0.4 \\ \times\ 0.1 \\ \hline \end{array} \qquad \times \qquad ___$$

a) 3.7 × 9.1 b) 4.38 × 1.3

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Lesson Seven : **Decimals and the Metric System**

Week .....

Date: / /

Class performance

Activity (1): The Iconic Tower:

The Iconic Tower is a mixed-use skyscraper in the new administrative capital of Egypt. It stands at a height of 385 meters, making it the tallest building in Africa. The tower is located in the business district of the administrative capital. So, what is the height of the tower in kilometers? (Share with your colleague)



Activity (2): The Bus Rapid Transit:

The Bus Rapid Transit is a public transportation system that relies on buses running on dedicated lanes only, without sharing with private cars or other modes of transportation, making it almost as fast and efficient as the metro, but at a lower cost. If the length of the route is 110 km. What is the length of the route in meters? (Share your answer with your colleagues)



Home performance: (Home Work)

Find the result of the following questions:

1) Find the equivalent measurement of 670 milliliters in liters.
2) Find the equivalent measurement of 27.1 centimeters in meters.
3) Find the equivalent measurement of 972 meters in millimeters.
4) Find the equivalent measurement of 4.18 millimeters in centimeters.
5) Hassan bought 2.75 kg of tomatoes, what is the equivalent measurement of what he bought in grams?

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Lesson Eight : Measurement, Decimals, and Powers of Ten

Week .....

Date: / /

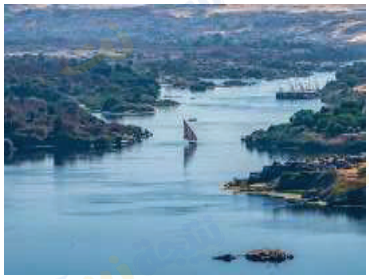
Class performance

Activity (1): Domestic Tourism:

If the distance between two cities is 326 km, what is the distance between them in meters?

Activity (2): The Nile River:

The Nile River is considered the longest river on the earth with a total length of about 6,670 km between Lake Victoria and the Mediterranean Sea. How long is the Nile River in meters?
(Share your answer with your colleagues)



Activity (2): Water is the Essence of Life:

Mouaz practices weightlifting; he needs to drink about 4,230 milliliters of water daily. How many liters of water does Mouaz need to drink in one day?
(Share your answer with your colleagues)

Home performance: (Home Work)

Find the result of the following questions:

Use multiplication and powers of 10 to convert the given measurements:

1) 146 grams to kilograms
2) 27 meters to centimeters
3) 4,563 milliliters to liters
4) 480 grams to kilograms
5) Mazen is training in running; on the first day, he ran a distance of 243.2 meters. What is the length of this distance in kilometers?

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Lesson Nine : **Solving Multistep Story Problems**

Week .....

Date: / /

Class performance

Activity (1): Correct Result:

Ahmad bought 0.375 kg of Romano cheese, 0.256 kg of cheddar cheese, and 560 g of white cheese. What is the total mass of the cheese Ahmad bought in grams?

Activity (2): Healthy Drink:

The mother bought a carton of milk containing 2 liters and distributed it into 8 cups, each cup holding 220 mL. Collaborate with your colleague to find out the remaining milk in milliliters?

Activity (3): Donation:

Jihan donated an amount of 235.5 pounds over 3 days. If she donated 120 pounds on the first day and 45.5 pounds on the second day, how many pounds did she donate on the third day? (Share your answer with your colleagues)

Home performance: (Home Work)

Find the result of the following questions:

1) Mona drank a cup of milk with a capacity of 225 mL, and Marwa drank a cup of milk with a capacity of 0.325 liters. What is the difference between what Marwa drank and what Mona drank in liters?

2) Shaima bought 9.75 meters of fabric and used 325 cm of it. Find the remaining fabric in centimeters.

3) If the distance from Cairo to Ras Sedr is Roundly 198 kilometers, and the distance from Cairo to Ahmed Hamdi Tunnel is Roundly 138,000 meters. What is the distance from the tunnel to Ras Sedr in meters Roundly?

4) Alaa used 1 kg of flour, 0.5 kg of sugar, and 0.25 kg of ghee to make a cake. What is the total amount of grams used to make the cake?

5) Mona used 345 grams of flour to make a cake and 1.35 kg to make bread. What is the amount of flour she used in grams?

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Week …….. -Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) 0.3 kg = …….. gm

a) 3 b) 30 c) 300 d) 3,000

Second: Answer the following questions:

2) How many litres in 5,125 millilitres?
3) Find the result of: 1.243 × 2.5
4) Find the result of: 2.524 × 1.7
5) If Adel's height is 182 cm, and his brother is 0.52 meters shorter than him, what is the height of Adel's brother?

Model (B)

First: Choose the correct answer from those given:

1) 0.3 kg = …….. gm

a) 700 b) 7 c) 7,000 d) 70

Second: Answer the following questions:

2) How many litres in3,745 millilitres?
3) Find the result of: 3.125 × 2.7
4) Find the result of: 3.412 × 2.8
5) If Walid's height is 175 cm, and his brother is 0.33 meters shorter than him, what is the height of Walid's brother?

Model (C)

First: Choose the correct answer from those given:

1) 0.4 kg = …….. gm

a) 4,000 a) 4 a) 40 a) 400

Second: Answer the following questions:

2) How many litrer in6,725 millilitres
3) Find the result of: 3.247 × 6.5
4) Find the result of: 3.185 × 4.2
5) If Adam's height is 179 cm, and his brother is 0.45 meters shorter than him, what is the height of Adam's brother?

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Lesson Ten : **Dividing by Powers of Ten**

Week ..... Date: / /

Class performance

Activity (1): Guessing Game:

Hossam bought 10 pieces of cake of the same type for 277.5 pounds. What is the price of one piece?

Activity (2): Win the Challenge:

You and your colleague participate in solving these exercises. Are the results different? Discover the pattern.

1) 239 ÷100 = ….. 2) 239 ÷ 0.01 = ….. 3) 239 ÷ 0.1 = ……

Activity (3): The Pens Reveal the Dimensions:

Samir made a strip of pens that is 135 cm long. Samir used 10 pens of the same length in a row next to each other. What is the length of one pen?
(Share your answer with your colleagues)

Home performance: (Home Work)

Find the result of the following questions:

Find the quotient in the following:

1) **36.9 ÷ 0.01**
2) **2.75 ÷ 10**
3) **745 ÷ 100**

4) Find the quotient, then put the appropriate sign > , < or = :

a) 6.85 ÷ 100 ☐ 685 ÷ 10

b) 94.5 ÷ 0.1 ☐ 94.5 ÷ 10

5) If the price of 100 notebooks of the same type is 1350 Egyptian pounds, what is the price of one notebook?

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Lesson Eleven : Patterns and Relationships in Powers of Ten

Week ..... Date: / /

Class performance

Activity (1): The Tahia Misr Bridge:



The Tahya Misr Bridge, also known as the Rod Al-Farag Axis Bridge, is a suspension bridge that spans the Nile River in Cairo, Egypt. It is considered as one of the widest suspension bridges in the world, with a width of 67.3 meters. It has been recorded in the Guinness World Records. So what is the width of the Tahya Misr Bridge in kilometers (Share with your colleague)?

Activity (2): Monorail:



The East Nile Monorail or the Administrative Capital Monorail starts from the Stadium Station in Nasr City, Cairo, and extends to the Justice City Station in the New Administrative Capital with a length of 56,500 meters, taking a journey of 60 minutes. What is the length of the line in kilometers? (Share the answer with your colleagues).

Home performance: (Home Work)

First: Assign the appropriate powers of the number 10 to each of the following mathematical relationships to make them correct:

1) a) $625.7 \div \ldots\ldots = 6.257$ ☐ b) $625.7 \times \ldots\ldots = 6.257$

2) a) $0.3254 \div \ldots\ldots = 325.4$ ☐ b) $0.3254 \times \ldots\ldots = 325.4$

Second: Find the result of the following questions:

3) a) $43.18 \div 0.01$ ☐ b) 43.18×0.01

4) a) $5.574 \div 0.001$ ☐ b) 5.574×0.001

5) If the price of 100 pens from the same type is 350 pounds, then what is the price of one pen?

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Lesson Twelve : **Dividing Decimals by Whole Numbers**

Week ..... Date: / /

Class performance

Activity (1): Division Without Mistakes:

A merchant wants to distribute 15.6 kg of rice equally into 4 bags. What is the mass of rice in each bag?

Activity (2): The Secret in The Garden:

A rectangular garden has an area of 164.4 square meters. If the length of the garden is 40 meters, what is the width of the garden? (Share with your colleague)

Activity (3): Measuring Challenge:

The city council has decided to light one of the streets that is 372.12 meters long. The council will place 30 streetlights at equal distances. What is the distance between each pair of streetlights? (Share your answer with your colleagues)

Home performance: (Home Work)

Answer the following questions:

Find the quotient using the standard algorithm:

1) 45.5 ÷ 14
2) 40.4 ÷ 5
3) 78.2 ÷ 23
4) 250 ÷ 40
5) A car covers a distance of 136.25 km in 5 days. What is the distance covered in one day (considering it travels the same distance each day)?

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Week ..... -Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) 147.2 cm = ... meter

a) 1.472 b) 1,472 c) 14.72 d) 147.2

Second: Answer the following questions:

2) Find the result of: 589.5 ÷ 30
3) Find the result of: 36.327 ÷ 0.1
4) Find the result of: 245.8 ÷ 0.1
5) A car covers 36.25 km daily, what is the covered distance by this car in 10 days

Model (B)

First: Choose the correct answer from those given:

1) 278.5 meter = ... Km

a) **2.785** b) **2,785** c) **0.2785** d) **27.85**

Second: Answer the following questions:

2) Find the result of: 6.52 ÷ 0.1
3) Find the result of: 230 ÷ 20
4) Find the result of: 75.248 ÷ 0.1
5) A car covers 25.56 km daily, what is the covered distance by this car in 10 days

Model (C)

First: Choose the correct answer from those given:

1) 1472 mL = ... liter

a) **1.472** a) **1,472** a) **14.72** a) **147.2**

Second: Answer the following questions:

2) Find the result of: 6.52 ÷ 0.1
3) Find the result of: 1362.5 ÷ 50
4) Find the result of: 96.237 ÷ 0.1
5) A car covers 46.25 km daily, what is the covered distance by this car in 10 days

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Lesson Thirteen : **Dividing Decimals by Decimals**

Week .....

Date: / /

Class performance

Activity (1): Division Trick:

Find the result: $88.8 \div 1.11$

Activity (2): Delicious Calculations:

If the price of a piece of candy is 4.5 pounds, and Adel paid 112.5 pounds for a number of pieces of candy. What is the number of pieces of candy that Adel bought?
(Share with your colleague)

Activity (3): Soap World:

A barrel contains 81.7 liters of liquid soap, and it is intended to be emptied into bottles each with a capacity of 0.95 liters. How many bottles are needed?
(Share your answer with your colleagues)

Home performance: (Home Work)

Answer the following questions:

Find the quotient using the standard algorithm:

1) $4.2 \div 0.06$
2) $7.5 \div 1.5$
3) $28.5 \div 0.75$
4) $6.816 \div 0.32$
5) A piece of cloth is 64.5 meters long, and it is intended to be divided into pieces of equal length, each 4.3 meters long. How many pieces of cloth are there?

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Unit : Six

Lesson One : Ordering of Mathematical Operation

Week .....

Date: / /

Class performance

Activity (1): Challenge of Arithmetic Priorities:

Both Salim and Sarah found the value of the numerical expression: $74 - 61 + 8 \times 5$.
If Salim's answer is 105 and Sarah's answer is 53, which of their answers is correct?
(Share with your colleague)

Activity (2): Letter Puzzles:

Arrange the letters to form a word by arranging the operations to find the result: (Share the answer with your colleagues)

1) $17.5 \times 3 + 16 \div 2 =$ ..... Addition (N), Multiplication (F), Division (U)

2) $17.5 + 10 \times 2.4 - 1.5 =$ ..... Addition (U), Subtraction (N), Multiplication (S)

Home performance: (Home Work)

Answer the following questions:

1) To find the value of the numerical expression: $8.2 \div 0.4 \times 0.1$

what operation should we perform first?

2) Find the value of the numerical expression: $15 \div 5 \times 3 + 4$.

Calculate the following numerical expressions using the order of operations:

3) $25.1 \times 10 - 3.18 + 1.26 \div 5$
4) $245.15 - 1.32 \div 0.01 + 1.4 \times 3.8$
5) $129.9 \div 3 \times 2.5 - 15 + 3.2$

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Lesson Two : Numerical Expressions with Parentheses

Week .....

Date: / /

Class performance

Activity (1): Sameh in a Mathematical Dilemma:

Samih carried out the calculations in the numerical expression:

$23.4 - 0.5 \times 0.1 + (1.02 \div 0.02 + 1.78)$

He said that the result equals 710.8, do you agree with him? (Share with your colleague)

Activity (2): Piece of Cake:

Walaa bought 15 pieces of cake and then bought another 13 pieces, and she wants to distribute the pieces equally among 8 of her friends, how much does each friend get? (Share the answer with your colleagues)

Home performance: (Home Work)

Answer the following questions:

First: Identify which operations should be carried out first and then find the result of the numerical expressions:

1) $2.8 \times (2.7 - 1.9) \div 3.2 + 4.1$
2) $9.9 \times 2.3 + 4.8 - 7.1 \div 1.25$

Second: Find the value of the following numerical expressions using the order of operations:

3) $1.52 \div (0.1 + 5.2 \times 0.01)$
4) $(3.56 + 1.44) \div 0.4 + 0.4 \times 10 - 2$
5) $(34.8 \div (4+4)) \times 18 - 5.25 \times 2$

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Week ..... -Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) 70 ÷ 0.7 = ...

a) 1 b) 10 c) 100 d) 1,000

Second: Answer the following questions:

2) Find the value of numerical expression: (6-5) × 7+2=
3) Find the value of the numerical expression: 64 ÷ 0.32 + 0.1 × 3.2
4) Find the value of the numerical expression: (20 + 33.29) × 10 – 6.1
5) Hanaa has a bottle of mineral water with a capacity of 4.8 liters that she wants to distribute into cups, each with a capacity of 0.6 liters. How many cups can she fill?

Model (B)

First: Choose the correct answer from those given:

1) **50 ÷ 0.5 = ...**

a) 1 b) 10 c) 100 d) 1,000

Second: Answer the following questions:

2) Find the value of numerical expression: (9 – 8) × 5 + 4
3) Find the value of the numerical expression: 640 ÷ 0.32 + 0.1 × 3.2
4) Find the value of the numerical expression: (30 + 23.29) × 10 – 4.1
5) Hanaa has a bottle of mineral water with a capacity of 4.2 liters that she wants to distribute into cups, each with a capacity of 0.7 liters. How many cups can she fill?

Model (C)

First: Choose the correct answer from those given:

1) **60 ÷ 0.6 = ...**

a) 1 b) 10 c) 100 d) 1,000

Second: Answer the following questions:

2) Find the value of numerical expression: (8 – 7) × 6 +3
3) Find the value of the numerical expression: 48 ÷ 0.24 + 0.1 × 2.5
4) Find the value of the numerical expression: (10 + 43.29) × 10 – 5.1
5) Hanaa has a bottle of mineral water with a capacity of 4.8 liters that she wants to distribute into cups, each with a capacity of 0.8 liters. How many cups can she fill?

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Lesson Three : Writing Expressions to Represent Scenarios

Week .....

Date: / /

Class performance

Activity (1): Smart Saving:

Waleed saved an amount of 15.5 pounds daily for a week, and in the following week, he saved 18 pounds daily for 4 days. Write a numerical expression that represents the total amount Waleed saved during the two weeks, and then find its value.
(Share with your colleague)

Activity (2): School Supplies Challenge:

Ahmed bought 3 pens, with each pen costing 4.75 pounds, a ruler costing 8.25 pounds, and two books each costing 23.5 pounds. Write a numerical expression that represents the total amount Ahmed paid, and then find its value.
(Share your answer with your colleagues)

Home performance: (Home Work)

Answer the following questions:

First: find the result of the numerical expressions:

1) $25.1 \times 10 - 5.5 \div 0.2$
2) $2.2 + 4.6 \times 14.74 \div 0.01$

Second: Write a numerical expression that matches the solution keys in the following problems, then find its value:

3) Divide 72 by 8 then add the result to the number 65.

4) Add 6.5 and 18.25 then multiply the result by 4.

5) Divide 84 by 0.2 then add 32.5 and then divide the result by 5.

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Lesson Four : **Identifying Numerical Patterns**

Week ..... Date: / /

Class performance

Activity (1): The Right Key:

Observe each table and discover the rule. Use a variable to write the rule:
(Share with your colleague)

(1)	
Output	**Input**
4	1
8	2
12	3
16	4

(2)	
Output	**Input**
7	1
8	2
9	3
10	4

(3)	
Output	**Input**
1	6
2	12
3	18
4	24

Activity (2): Journey into the World of Patterns:

Observe each set of numbers and determine whether they represent a numerical pattern or not. If the answer is yes, identify the pattern rule and write the next number. (Share the answer with your colleagues)

1) 40 , 37 , 34 , 31 , 28 , ……..
2) 128 , 64 , 32 , 16 , 8 , ……..
3) 9 , 7 , 11 , 10 , 8 , ……..
4) 2 , 6 , 18 , 54 , 162 , ……..

Home performance: (Home Work)

Answer the following questions:

- Write the next number in the pattern: (48 , 24 , 12 , 6 , …..)
- Discover the rule of the pattern: (19 , 22 , 25 , 28 , 31 , …..)
- Write the rule of the pattern if the input is 8,7,6 and the output is 12,11,10
- Determine the output if the rule is (n × 2) + 5 and the input is 4
- Determine the input if the rule of the pattern is 8 ÷ n and the output is 2.

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Week …….. -Weekly Assessment

Model (A)

First: Choose the correct answer from those given:

1) To find the value of the numerical expression: (1.3+ 3.43) × 8 – 2.02, we must start with …….. operation
   a) multiplication **b)** division **c)** Brackets expanding **d)** subtraction

Second: Answer the following questions:

2) Determine the output if the numerical pattern is: n+ 3 and the input is 12?
3) Write the numerical expression that represents the following problem and then find its value: Subtract 3.1 from 4.62, then multiply the result by 2
4) As part of his fitness training, Munir cycles a distance of 38.7 km in one hour, how many meters does he cover in a minute?
5) Kamal says that the rule of the pattern: 4 , 8 , 16 , 32 , 64 , …….. is n + 4
   Do you agree with him or not? And why?

Model (B)

First: Choose the correct answer from those given:

1) To find the value of the numerical expression: 1.3+ 3.43 × 8 – 2.02, we must start with …….. operation
   a) multiplication **b)** division **c)** Brackets expanding **d)** subtraction

Second: Answer the following questions:

2) Determine the output if the numerical pattern is: n+ 5 and the input is 10
3) Write the numerical expression that represents the following problem and then find its value: Add 6.25 and 7.75, then divide the result by 7
4) As part of his fitness training, Munir cycles a distance of 42.6 km in three hours If he is riding the bike at the same rate all the time, what is the number of meters does he cover in a minute?
5) Husain says that the rule of the pattern: 5 , 10 , 20 , 40 , 80 , …….. is n + 5
   Do you agree with him or not? And why?

Model (C)

First: Choose the correct answer from those given:

1) If the rule for a numerical pattern is: n + 4 and the input is 16, then the output is …
   a) 20 **b)** 12 **c)** 64 **d)** 4

Second: Answer the following questions:

2) Determine the output if the numerical pattern is: n+4and the input is 16
3) Write the numerical expression that represents the following problem and then find its value: Subtract 2.3 from 4.7, then divide the result by 2
4) As part of his fitness training, Mohamed cycles a distance of 42.4 km in 4 hours If he is riding the bike at the same rate all the time, what is the number of meters does he cover in a minute?
5) Waled says that the rule of the pattern: 3 , 6 , 12 , 24 , 48 , …….. is n + 3
   Do you agree with him or not? And why?

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Exercises on the First Term

First: Choose the correct answer from the given options:

(1) The number lies on the hundredth position in the decimal fraction 0.594 is .....
(a) 4 (b) 8 (c) 9 (d) 1

(2) If the decimal number 9.32 is multiplied by 10, the result will be .....
(a) 0.932 (b) 9.32 (c) 93.2 (d) 932

(3) 7+ 0.3 + 0.05 + 0.009 =.....
(a) 9.537 (b) 9.735 (c) 7.359 (d) 5.379

(4) $7 + 0.2 + \frac{6}{100} + \frac{9}{1000} =$ .....
(a) 9.627 (b) 7.269 (c) 7.962 (d) 9.726

(5) 3.405 < .....
(a) 2.678 (b) 5.240 (c) 3.240 (d) 3.333

(6) Which of the following decimal fractions is the greatest:
(a) 0.9 (b) 0.91 (c) 0.09 (d) 9.5

(7) 24.671 ≈ ..... (to the nearest tenth)
(a) 24.6 (b) 24 (c) 24.7 (d) 25

(8) When estimated the addition operation of the two decimal numbers: 4.33 + 6.789 using the first digit on the left estimation strategy equals .....
(a) 4 (b) 10 (c) 11 (d) 11.119

(9) Determine which of the following represents an equation?
(a) 2x+6 (b) 3x - 9 (c) 4x +2=16 (d) x+36-z

(10) The number whose prime factors are: 2 , 2 and 5 is .....
(a) 9 (b) 12 (c) 15 (d) 54

(11) Which of the following is not a multiple of 4
(a) 8 (b) 16 (c) 26 (d) 48

(12) 45 is the greatest common factor (GCF) of the two numbers .....
(a) 4 and 7 (b) 5 and 9 (c) 4 and 5 (d) 2 and 3

(13) (39 × 4) + (39 ×10) + (39 ×100) = 39 ×.....
(a) 411 (b) 141 (c) 114 (d) 4.11

(14) The number in which it divided by 15, the quotient is 381 with reminder 7 is ...
(a) 7,522 (b) 7,225 (c) 5,722 (d) 5,227

(15) If : 123× 3 = 4,182 ,then 7,182 ÷ 34 = ...
(a) 123 (b) 132 (c) 321 (d) 231

(16) 9.6 × ..... = 960
(a) 10 (b) 100 (c) 1,000 (d) 0.1

(17) 5 kg = ... gm
(a) 5 (b) 50 (c) 500 (d) 5,000

(18) 7.124 mL = ... liter
(a) 71.24 (b) 7.124 (c) 712.4 (d) 0.7124

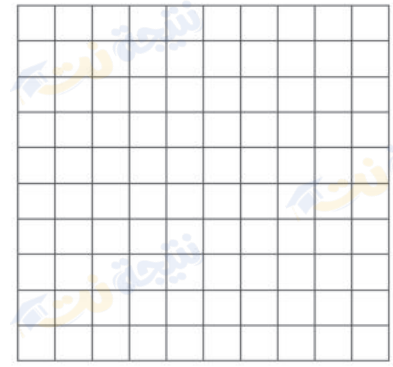
(19) The first step in evaluating the value of the numerical expression: 5.5 × 3 + 5 – 8 is to perform the ..... operation
(a) addition (b) subtraction (c) multiplication (d) Division

Second: Answer each of the following:

1) Find the result of: 4.372 + 3.584
2) Find the result of 57 hundredth – 15 thousandths
3) What the value of B in the equation: 3.217 + B = 5.402 ?

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4) Find the greatest common factor (GCF) of the two numbers: 6 and 9 ?
5) Find the result: 36×48 ?
6) Find the result: 421×55 ?
7) Find the result of estimation of 42×88 using rounding to the nearest ten?
8) Farah bought a shirt from a store for 425 pounds, and her friend Farida bought 12 shirts of the same type from another store for 6,744 pounds. Find the increase in the price of the two shirts ?
9) Find 45×0.1 ?
10) Omar bought 8 notebooks, the price of each notebook is 67.5 pounds, then what Omar paid = ... pounds
11) Find the resul :0.3×0.7 = ...
12) Write the fraction $\frac{257}{1,000}$ in a form of decimal number
13) Find the result of the following: 1.238×100
14) Find the result of the following: $8.45 \div 10$
15) A fruit seller distributes 8.945 kg of orange equally into 10 bags. Calculate the number of kilograms in each bag.
16) Write the decimal number 3.702 in the extended form
17) Decompose the decimal number 2.981
18) Form the number: $(2 \times 1) + \left(4 \times \frac{1}{100}\right) + (7 \times \frac{1}{1,000})$
19) Compare between the two decimal numbers: 7.342 and 7.234
20) Compare between: (8 tenths, 5hundredth and 1 thousandth) and 8.501
21) Arrange ascendingly the numbers: 4.236 , 6.432 , 4.632 and 6.234
22) Round the number 9.487 to the nearest hundredth
23) Round the number 25.824 to the nearest unit
24) Round the number 8.3459 to the nearest thousandth
25) Estimate the addition operation: 5.345 + 9.123 using your preferred strategy, then find the sum.
26) Find the result of addition using the model: 0.25 + 0.35
27) Find the result of addition using the place value table: 4.523 + 5.213

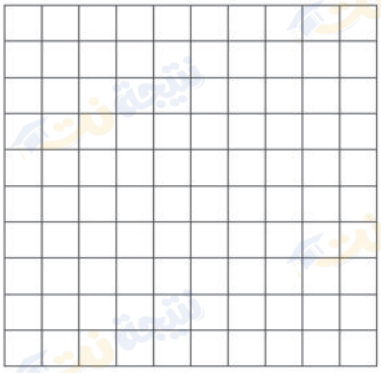


Ones		.	Decimals		
T	O	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			

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28) Find the result of addition using the standard algorism:
a) 6.308 + 3.51 b) 34.234 + 25.56

29) Find the result of subtraction of the following using the model:0.83 – 0.33



30) Find the result of a subtraction of the following using the place value table:
55.834 - 45.234

Ones		.	Decimals		
T	O	.	Tenths	Hundredths	Thousandths
		.			
		.			
		.			

31) Find the result of subtraction of the following using the standard algorism:
a) 4.321 – 2.61 b) 47.328 – 12.17

32) Mona bought 5.75 kg of apple; Laila bought 7.32 kg of orange. Estimate the difference between the two masses, then find the actual difference between the two masses.

33) If the distance between the school of Samir and his house is 45.924 km , and he covered a distance 24.532 km of them by bus, calculate the remaining distance from his road.

34) Write the equation that expresses the sum of the two numbers 23.194 and 15.06

35) Find the value of the variable in each of the following:
a) X – 1.56 = 2.67 b) 6.234 + N = 9.145

36) Find the value of the unknown in the following equations using the model:
a) D – 2.405 = 3.712 b) 5.391 + N = 8.207

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37) Decompose the following numbers, then find the greatest common factor

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GCF and the Least Common Multiple (L.C.M) of each pair of numbers:
a) 6 and 9 b) 15 and 35 c) 12 and 16 d) 14 and 21

38) find the greatest common factor GCF and the Least Common Multiple (L.C.M) of the two numbers: 6 and 12

39) Seham wants to distribute 24 pieces of chocolate and 36 pieces of candy equally among a set of her friends. what is the greatest number of friends in which she can distribute the chocolates and the candies equally among them?

40) Use the opposite rectangle area model to find the result of: 24 × 37

.....	.....
.....	.....

41) Use the opposite rectangle area model to find the result of: 246 × 16

.....	.....	.....
.....	.....	.....

42) Using the distributive property, find the product of: 43 × 12

43) Using the distributive property, find the product of: 52 × 37

44) Find the result of the following using the standard algorism:
a) 12 × 23 b) 34 × 73 c) 467 × 45 d) 276 × 31

45) Find the result of the following using three different strategies:
a) 13 × 67 b) 456 × 91

46) Joudy has 8,645 pounds, she bought 24 pens, if the price of one pen equals 342 pounds, how much money remains with Joudy?

47) What is the number, when it divided by 44, the quotient equals 213?

48) Use the rectangle area model to find the quotient of: 5,325 ÷ 25

49) Find the estimated result of the following division operations, then compare it to the actual result using the rectangle area model.
a) 6,984 ÷ 12 b) 1,763 ÷ 43

50) Find the quotient for each of the following and the remainder, if exists, using the standard algorithm, then check your answer using the multiplication operation.
- 819 ÷ 14
- 9,200 ÷25
- 2,880 ÷ 12
- 13,968÷24

51) Ahmed wants to distribute 14,625 pounds equally among 45 workers. Find the number of pounds for each worker.

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52) What is the number, when it divided by 33, the quotient equals 546?

53) If the price of one pen is 34.55 pounds, what is the price of 100 pens of the same type?

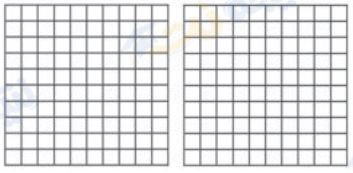
54) Compare the results of the following multiplication:
(563 × 0.01) and (5.63 × 100)

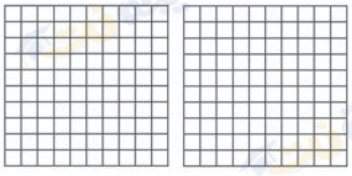
55) Find the result of the following:

- 3.5 × 5
- 7.31 × 8
- 2.71 × 24
- 0.3 × 0.2
- 0.6 × 0.3
- 0.9 × 0.5

56) Compare the results of the following multiplication:
a) 65 and (23.91 × 3) b) (4.23 ×3) and (32.4 × 2)

57) Use the models to find the result of each of the following:
n a) 1.3 × 0.8 b) 1.8 × 0.6





58) Find the result of the following using the rectangle area model:

a) 5.1 × 4.7



b) 7.31 × 3.1



59) Find the result of the following using the standard algorism:

- 3.52 × 1.7 0.62 × 6.4
- 4.53 × 3.2

60) Find the result of the following:

a) 589.5 ÷ 30 b) 36.327 ÷ 0.1

61) A car covered a distance of 678.23 km per day. What is the w covered in 10 days?

62) Laila needs to fill cups of water each of capacity 0.6 liter. How many cups can she fill using a bottle of water of capacity 3.6 liter?

63) Write the numerical expression that represents the following problem and then evaluate it: Subtract 3.4 from 5.8, then divide the result by 3.

64) Walid says that the rule for the pattern: 5, 10, 15, 20, 25, 30, ... is n + 5. Do you agree or disagree with him? why?

65) Find the result : 80 ÷ 0.8 ?

66) Find the result: (8 – 7) × 6 + 3 ?

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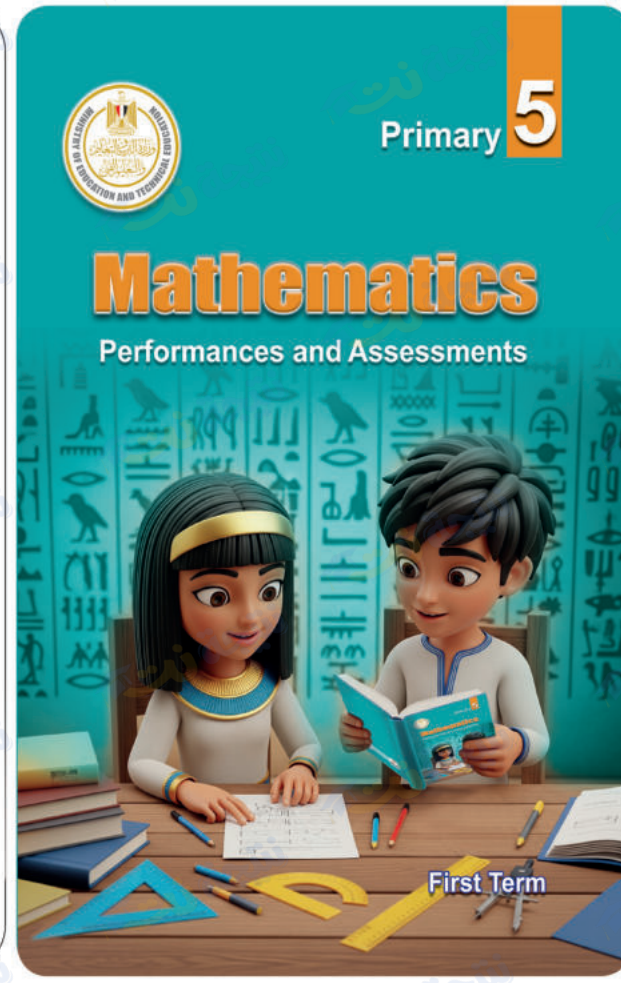
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مقاس الكتاب	ورق المتن	ورق الغلاف	ألوان الكتاب	عدد الصفحات	تاريخ الطباعة	كود الكتاب
١٩ × ٢٧	٧٠ جراماً	١٨٠ جراماً	٤ ألوان	٧٦	٢٠٢٦-٢٠٢٧	١١٥٥ / ٥٥ / ١٥ / ١١ / ٥ / ٢٠

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شركة الإسراء للطباعة والتغليف

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