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Topic 1: The large numbers up to 100000000

Worksheet (1)

Observe then complete . Class Class Class Class									
Billions	N	Aillion	15	The	ousan	ds	U	Jnits	
ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
		7	6	9	4	0	3	8	5
	Class Class						Class		
Billions	1	Millio	ns	Th	ousar	ıds	l	Units	
ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
	1	ion		426 thousand			318		

Worksheet (2)

Observe then complete . Class Class Class Class									
Billions	Ĩ	Aillion	ns	Th	ousan	ds	τ	Jnits	
ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
	1	7	6	9	4	0	3	8	5
		Class			Class			Class	
Billions	N	Million	ns	Th	ousan	ds	τ	Inits	
ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
	290	millior	ו	425 t	housa	nd	4	418	
Class					Class			Class	
Billions	, 1	Millio	ns	Th	ousar	ds	τ	Units	
ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
1 billion 290 million			425 thousand			418			

Worksheet (3)

Observe then complete										
Observe then complet		Class			Class			Class		
	Billions	1	Millio	ns	Th	ousan	ds	τ	Jnits	
	ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	'tens	ones
The place value										
	45 million 830 thousand				d	543				
Is read:	Short w	ord forn	n:							
	Word fo	Word form:								

Worksheet (4)

Observe and complete

- 1 of the Tens is equal to ten times 1 of the
- 1 of the thousands is equal to ten times 1 of the.....
- 1 of the hundreds is equal to ten times 1 of the
- 1 of the Ten-thousands is equal to ten times 1 of the.....
- 1 of the Ten-millions is equal to ten times 1 of the.....
- 1 of the hundred-millions is equal to ten times 1 of the.....

Observe and complete

- 1 of theis equal to ten times 1 of the hundreds
- 1 of the is equal to ten times 1 of the ten-millions
- 1 of theis equal to ten times 1 of the hundred-thousands
- 1 of the Ten-thousands is equal to ten times 1 of the.....
- 1 of theis equal to ten times 1 of the thousands
- 1 of the hundred-millions is equal to ten times 1 of the.....

Worksheet (6)

Observe and complete

- hundred = 10 tens
- 1 ten-thousand = Hundreds
- 1 thousand = tens
- 1 thousand = ones
- 1 thousand = tens
- ten-thousand = 10 thousands
- 1 ten-thousand = hundreds
- 1 ten-thousand = tens
- 1 ten-thousand = ones
- hundred-thousand = ten-thousands
- hundred-million = ten-millions

Worksheet (7)

Complete:

- = Ten times a hundred thousand.
-= Ten times two hundred.
-= Ten times seven thousand.
-= Ten times five million.
-= Ten times hundred million.
-= Ten times three hundred.



Color with the same color each number in digits and in letters among the following:



Worksheet (9)

C	Choose at least two numbers of the following to complete the table:							
60000813			Forty-five million nine hundred three					
8	80000000 + 200	0 + 700 + 4	(3 × 1000000) + (5 × 1)					
	Standard form							
	Word form							
	Expanded Form							
	Expanded notation	•••••						

Color in the same color; the numbers written in the same form









Write the following numbers in digits, then arrange them in an increasing order and in an decreasing order.

60000 + 40		Forty thousand sixty
	(6 × 10000) + (5 × 10)]
Increasing order:	,	
Decreasing order :	,	,



- 3253982 + 4950000 =
- 4585928 1394356 =
- 2. Estimate and then find the exact answer:
 - 2000065 +4600685 = •
 - 33700809 1070000 = •
- 3. The following table shows the numbers of births in 3 months in

Worksheet (1)

Beirut as follows.

Month	April	May	June
Number of births	5292607	4036536	2271128

- Estimate the total number of births during the 3 months, then find the exact total?
- How many more births were there in April than in June?

Worksheet (2)

Learning schedule

What do you know about	What / How do you want	What did you learn about
adding and subtracting	to learn adding and	adding and subtracting
the large numbers up to	subtracting the large	the large numbers up to
100000000?	numbers up to	100000000 ?
	100000000 ?	
Talk mathematically	Talk about expectations	Check your
about the previous	and your learning style	understanding and get to
experiences		what you expected

- You can speak orally to determine your past experiences, and the teacher notes them.
- The teacher helps the students to set their expectations.
- The teacher provides feedback to the students and provides them with activities and exercises during the course to achieve their goals in the current lesson.
- The teacher notices the wrong concepts or difficulties that appear at the stage of showing off previous experiences, therefore, it should be toleratedteaching methods in the next stages.

 In Beirut , during 2010, the number of students in cycle 3 was (3702927) students, whereas, the number of students in cycle 1 and cycle 2 was (5426301). Find the sum of students in the three cycles.

2) Perform

204905999	17855907	29731501		
+ 5899703	+122809733	+22305915		

- 13522600+70411018 =
- 124705855+36501902 =

Worksheet (4)

Write in vertical form then calculate.

1) 70715 - 8326	2) 39217 - 17856	3) 70715 - 8326
4) 55328 - 39924	5) 85100 - 43726	6) 67324 - 59638
71 00052 45220	8) 29627 22971	9) 70000 - 59328
7) 50052 - 45256	8) 20031 - 22011	-,
10) 81146 -7596	66510 - 177	67 12) 92207 - 35264

Worksheet (5)

Question 1: Estimate the sum in each of the following.



Worksheet (6)

Question 1: Represent the following operations using Dennis cubes and then find the answer.

- 42709 + 134507 =
- 82601 + 90500 =
- 884613 + 59702 =
- 988905 624305 =
- 158605 99402 =

Question 1: Represent the following operations using the abacus and then find the answer.

- 2980114 + 23605902 =
- 158317201 + 251644805 =
- 99809777 18325233 =
- 624580540 37911455 =

Question 1: Perform the following then check:

- 7734814 + 26562901 =
- 3325305 + 1141213 + 2267804 =
- 1001527 + 4355901 + 1280088 =.....
- 7762144 3211895 =

Question 2: Estimate the following.

- 95813600 66455000 =
- 88356109 24150300 =
- 77913000 58655000 =
- 93725800 +41839000 + 355720905 =

Topic (3) - Multiplication of large numbers

Worksheet (1)

Khalil raises 15 chickens on his farm, each of them lays an average of one egg per day .



- 1- How many eggs did Khalil collect within 4 days?
- 2- How many eggs did Khalil collect within 2 days?
- 3- How many eggs did Khalil collect on the first and second day?
- 4- How many eggs did Khalil collect in a week?

Omar bought 12 shirts, 4 of them are green, 6 are purple, and 2 are pink. The price of one shirt is 15 Pounds. How much Pounds did he pay to the seller for all of them?



- 1- How much do the green shirts cost?
- 2- How much do the purple shirts cost?
- **3-** How much do the pink shirts cost?
- 4- How much do all the shirts cost?

Worksheet (3)

Saleh read a book about the pencil-making machine, if Saleh knew that this machine produces 62 pencils per minute, how much does it produce in half an hour?



62×30 =



Omar travels from Oman to Saudi Arabia, which is 608 km away, twice a month if he takes the same way back and forth. Approximately what is the distance that he travels per month?









If sewing one shirt requires (14) meters of fabric, then tailoring (245) clothes needs a number of meters of cloth equal to:





)Catch the monkeys(

- The second player throws the dice and then looks for the monkey with the number shown on the dice
- Then give one minute to the two players to show the Product of multiplying the numbers between them.
- The player who gives the answer faster is the winner and takes the two monkeys that appeared in the game.
- We repeat the game so that we cancel the numbers that appeared earlier.
- The winner is the one who collects the most correct answers during the game and catches the most monkeys.

Worksheet (8)

Complete the following multiplications			أَكْمِلْ خُ
0 16	2 3-	3 48	
<u>× 7</u>	× 4	× 5	
11_	124	24_	
5 _6 × 5 180	6 41 ×	$\begin{array}{c} 0 6_{-} \\ \times 2 \\ 1 2 \\ \end{array}$	8 77 × 8 6_6
● 62	€ 1_	● 62	€8
× 7	× 6	× 2	× 7
_34	108	1_4	266
€ 62	€4	(b 4_	$ \begin{array}{c} $
× 6	<u>× 5</u>	<u>× 6</u>	
3_2	170	264	



Perform the following multiplication.

1) 32	2) 562	3) 72 9	4) 949
× 5	× 6	× 8	× 4
5) 28 × 5	6) 647 × 8	7) 355 × 5	8) 450 × 7

9) 3500×9 10) 8816×6 11) 9498×9 12) 9310×7

Perform the following multiplication.



- 1) $416 \times 6=$ 2) $308 \times 8=$ 3) $153 \times 4=$
- 4) $310 \times 3 = \dots$ 5) $135 \times 4 = \dots$ 6) $506 \times 5 = \dots$
- 7) $216 \times 6 = \dots$ 8) $359 \times 3 = \dots$ 9) $325 \times 9 = \dots$
- 10) $135 \times 8 = \dots 11$) $511 \times 4 = \dots 12$) $810 \times 8 = \dots$



Perform the following multiplication



Worksheet (13)

Perform the following multiplication.

1) $416 \times 6=$ 2) $308 \times 8=$ 3) $153 \times 4=$

4) $310 \times 3 = \dots$ 5) $135 \times 4 = \dots$ 6) $506 \times 5 = \dots$
Perform the following multiplication.

1) 168	2)252
× 2	× 2
3) 383	4)238
× 3	× 4
5)819	6) 340
× 5	× 6
7) 201	8)407
× 2	× 4
9) 907×5	10)160×7
11) 611×7	12) 979×9
13) 338× 8	14) 927×9
15) 907×7	16) 902×9

Perform	m the following multiplication	on.	
	100 <i>x</i> 2345 =	-	
	230 <i>x</i> 100 =		
	20 <i>x</i> 30 <i>x</i> 10 =		e l
	50 <i>x</i> 20 <i>x</i> 10 =		۳_
	25436 <i>x</i> 100 =		
	70 <i>x</i> 1000 =		

Worksheet (16)

The objective: Multiplying by a Two-digit number find the product.

1) 102	2) 73	3) 423
× 31	×19	×26

Perform the following multiplication.

12 × 30 =	74 × 20 =
45 x 50 =	32 x 70 =
10 × 26 =	20 x 30 =

Worksheet (18)

Perform the following multiplication.



Worksheet (19)



Estimate, then multiply . Use your estimation to verify your answer:





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Topic (4): Division without remainder

Worksheet (1)

Complete:

- **1.** The divisor in the following division $(21 \div 3 = 7)$ is
- **2.** The dividend in the following division $(18 \div 3 = 6)$ is
- **3.** The remainder in the following division ($50 \div 5 = 10$) is
- **4.** The quotient in the following division $(9 \div 3 = 3)$ is
- **5.** Check the following division: $(8 \div 4 = 2)$.
- **6.** Check the following division ($6 \div 2 = 3$).

Perform the following divisions.

1)	240 + 3	=	21)	540 + 90	=
2)	2400 ÷ 3	=	22)	4800 ÷ 60	=
3)	180 ÷ 6	=	23)	900 ÷ 300	=
4)	1800 ÷ 6	=	24)	1200 ÷ 30	=
5)	2500 + 5	=	25)	2100 ÷ 700	=
6)	4200 ÷ 7	=	26)	3600 + 6	=
7)	3600 + 9	=	27)	1600 ÷ 400	=
8)	2100 ÷ 3	=	28)	2700 ÷ 900	=
9)	3500 ÷ 5	=	29)	4800 ÷ 8	=
10)	2000 + 4	=	30)	4200 + 70	=
11)	420 + 6	=	31)	810 + 90	=
12)	5600 ÷ 7	=	32)	5600 ÷ 800	=
13)	810 ÷ 9	=	33)	3500 ÷ 500	=
14)	6400 ÷ 8	=	34)	6300 ÷ 7	=
15)	280 + 7	=	35)	5400 + 60	=
16)	3200 + 4	=	36)	2800 + 7	=
17)	1800 ÷ 9	=	37)	7200 ÷ 900	=
18)	540 ÷ 6	=	38)	8000 ÷ 10	=
19)	490 + 7	=	39)	2400 + 80	=
20)	2400 ÷ 3	=	40)	4800 ÷ 60	=

Worksheet (3)

Perform the following divisions.

1)	3600 ÷ 4	=	21)	1200 ÷ 600	=
2)	2700 ÷ 3	=	22)	2400 + 40	=
3)	4500 ÷ 9	=	23)	3600 ÷ 900	=
4)	2100 ÷ 7	=	24)	3600 ÷ 60	=
5)	8100 + 9	=	25)	3500 + 700	=
6)	4800 ÷ 6	=	26)	4900 ÷ 7	=
7)	2500 + 5	=	27)	900 + 3	=
8)	3200 ÷ 8	=	28)	5600 ÷ 80	=
9)	1800 + 2	=	29)	4000 + 40	=
10)	1600 ÷ 8	=	30)	7200 ÷ 800	=
11)	4200 ÷ 70	=	31)	2400 ÷ 300	=
12)	5400 ÷ 90	=	32)	1800 + 90	=
13)	900 + 30	=	33)	4800 + 600	=
14)	3600 ÷ 40	=	34)	900 ÷ 9	=
15)	2000 + 50	=	35)	4200 + 600	=
16)	1400 ÷ 700	=	36)	4500 ÷ 90	Ŧ
17)	4500 + 900	=	37)	1600 + 400	=
18)	1800 ÷ 600	=	38)	6400 ÷ 8	=
19)	2100 ÷ 300	=	39)	5600 ÷ 700	=
20)	800 ÷ 100	=	40)	3500 + 50	=



1) 3 2 7	2) 5 5 0	3) 6 2 4
4) 8 3 2	5) 5 4 5	6) 7 2 1
7) 9 1 8	8) 8 4 8	9) 6 6 0
10) 9 4 5	11) 7 4 2	12) 8 6 4



1)	4 20	2)	3 1 8	3)	5 5 3
4)	3 3 0	5)	2 18	6)	5 40
7)	214	8)	3 2 4	9)	4 2 4
10)	5 4 5	11)	3 3 3	12)	4 3 6

W	or	ks	hee	t ((6)	
					× /	

Perform the following divisions.

1) 2 4 2 6	2) 3 1 3 2	3) 4 1 0 8
4) 3 2 4 6	5) 2 5 6 4	6) 5 1 3 5
7) 4 1 5 2	8) 3 3 4 2	9) 4 5 3 2
10) 2 6 4 6	11) 3 3 8 1	12) 4 6 0 8

Worksheet (7)

Perform the following divisions.

1)	2 4 2 6	2)	3 132	3)	4 1 0 8
4)	3 2 4 6	5)	2 5 6 4	6)	5 1 3 5
7)	4 1 5 2	8)	3 3 4 2	9)	4 5 3 2
10)	2 6 4 6	11)	3 3 8 1	12)	4 6 0 8

Perform the following division with (no remainder).

1)	14 3 6 4	2)	21 3 5 7	3)	33 6 2 7
4)	25 6 2 5	5)	17 510	6)	24 816
7)	42 588	8)	34 170	9)	18 3 2 4
10)	54 672	11)	24 672	12)	31 6 8 2

Perform the following division with (no remainder).

1)	32 5 2 6	2)	47 179	3)	15 7 5 6
4)	42 5 5 1	5)	65 388	6)	72 985
7)	18 794	8)	26 671	9)	38 2 9 9
10)	41 4 2 1	11)	17 683	12)	41 798

Worksheet (10)

Task (1): Divide Mentally using the addition distribution strategy

A) 92 ÷ 4

B) 372 ÷ 6
Task (2): Divide Mentally using the subtraction distribution strategy

A) 172 ÷ 4

B) 414 ÷ 6 Task (3) Divide Mentally using (decomposing to factors) strategy

A) 328 ÷ 8

B) $524 \div 4$

Worksheet (11)

Task (1) divide Mentally:

A) 1200÷25

B) 570÷ 5 Task (2): Divide Mentally:

A) 1300÷25

B) 970 ÷ 5

Worksheet (12)

Calculate the following division using the multiplication tables.

10 ÷ 2 =	10 ÷ 5 =
3 ÷ 3 =	9 ÷ 3 =
6 ÷ 3 =	6 ÷ 2 =
12 ÷ 4 =	0 ÷ 2 =
5 ÷ 5 =	25 ÷ 2 =
5 ÷ 1 =	4 ÷ 1 =
12 ÷ 3 =	15 ÷ 5 =
8 ÷ 2 =	16 ÷ 4 =
0 ÷ 4 =	15 ÷ 3 =
4 ÷ 2 =	3 ÷ 1 =
2 ÷ 1 =	$0 \div 5 =$
4 ÷ 4 =	20 ÷ 5 =
0 ÷ 1 =	$0 \div 3 =$
8 ÷ 4 =	20 ÷ 4 =
1 ÷ 1 =	12 ÷ 3 =
10 ÷ 5 =	10 ÷ 2 =
4 ÷ 1 =	5 ÷ 5 =
6 ÷ 2 =	16 ÷ 8 =

Worksheet (13)

Perform the following divisions.





1)	2 4 2 6	2)	3 132	3)	4 108
4)	3 2 4 6	5)	2 5 6 4	6)	5 135
7)	4 1 5 2	8)	3 3 4 2	9)	4 532
10)	2 6 4 6	11)	3381	12)	4 6 0 8



1)	25 6 2 5	. 2)	24 8 1 6	3)	18 3 2 4
4)	43 1 3 3 3	5)	35 1715	6)	37 5 5 5 0
7)	13 20527	8)	15 37275	9)	24 52680
10)	43 28939	11)	52 32292	12)	61 81008

Worksheet (16)

Students enter this link to do exercises on division without a remainder

/https://math-center.org/ar-SA/tests/5th



Extra worksheet (1)

Complete:

- **1.** The quotient in the following division ($9 \div 3 = 3$) is
- **2.** Check the following division: $(12 \div 4 = 3)$.

.....

3. Check the following division: $(55 \div 5 = 11)$.

- **4.** $505 \div 5 = \dots$
- **5.** $484 \div 4 = \dots$
- **6.** $360 \div 9 = \dots$
- **7.** $320 \div 4 = \dots$
- **8.** 640 ÷ 8 =
- **9.** $363 \div 3 = \dots$

Extra worksheet (3)

Fill in the blanks by using your knowledge of multiplication facts.

1)	÷ '2	= 2	21
2)	÷ 3	= 1	22
3)	÷ 4	= 2	23
4)	÷ 2	= 5	24
5)	÷ 5	= 2	25
6)	÷1	= 4	26
7)	÷ 3	=3	27
8)	÷4	= 1	28
9)	÷ 5	= 4	29
10)	÷ 3	= 2	30
11)	10 +	= 2	31
12)	6 +	=3	32
13)	8 ÷	= 4	33
14)	20 ÷	= 4	34
15)	3 ÷	= 3	35
16)	4 ÷	= 1	36
17)	12 ÷	= 4	37
18)	12 ÷	= 3	38
19)	15 ÷	= 3	39
20)	2 ÷	= 1	40

21)	10 ÷	= 5
22)	÷4	= 3
23)	÷ 2	= 4
24)	25 ÷	= 5
25)	8 ÷	= 2
26)	÷3	= 5
27)	÷ 2	= 1
28)	15 ÷	=3
29)	6 ÷	= 3
30)	+10	= 2
31 ')	+ 3	= 4
32)	12 *	= 3
33)	16 ÷	= 4
34 ')	÷5	= 0
35)	4 ÷	= 4
36')	6 ÷	= 2
37 ')	÷ 2	= 5
38)	20 ÷	= 5
39)	÷ 5	= 4
40)	5 ÷	= 5

Extra worksheet (3)

Fill in the blanks by using your knowledge of division.

1)	3600 ÷	= 40	21')
2)	2100 ÷	= 30	22)
3)	350 ÷	= 5	23)
4)	2800 ÷	= 700	24)
5)	500 ÷	= 100	25)
6)	800 ÷	= 4	26)
7)	420 ÷	= 70	27)
8)	3200 ÷	= 800	28)
9)	1200 ÷	= 300	29)
10)	900÷	= 30	30)
11)	÷ 4	= 90	31)
12)	÷ 70	= 20	32)
13)	÷ 900	= 3	33)
14)	÷ 20	= 70	34)
15)	÷ 4	= 600	35)
16)	÷ 30	= 60	36)
17)	÷ 600	= 5	37)
18)	÷ 800	= 6	38)
19)	÷ 50	= 9	39)
20)	÷ 20	= 80	40)

21')	4200 ÷	= 700
22)	÷ 40	= 30
23)	÷ 60	= 60
.4)	5400÷ 900	=
25)	560 ÷	= 8
26)	÷ 3	= 800
27)	÷ 400	= 6
28)	8100 ÷	= 9.
29)	4200 ÷	= 700
30)	÷.6	= 90
31)	÷ 9	= 800
32)	4800 ÷	= 8
33)	2400 ÷	= 40
34)	÷ 80	= 50
35)	7200 ÷	= 90
36)	490 ÷	= 70
37)	÷ 5	= 700
38)	÷. 8	= 800
39)	420 ÷	= 6
40)	5600 ÷ 80	= .

Topic (5): Division with remainders

Worksheet (1)

Find the quotient in the following and determine the remainder in each of them.



Learning schedule

What do you know about	What \setminus How do you want	What did you learn about
divisibility by the	to learn how to	the division and the
numbers	Divide one number by	division strategies and
2.3.4.5.6.8.9.10 and	another, what do you	divisibility by numbers
what do you know about	know about division	2,3,4,5,6,8, 9,10
how to divide one	strategies	
number by another		
Talk mathematically	Talk about expectations	Check your
about previous	and your learning style	understanding and get to
experiences		what you expected

- You can speak orally to determine your past experiences, and the teacher notes them.
- The teacher helps the students to set their expectations.
- The teacher provides feedback to the students and provides them with activities and exercises during the course to achieve their goals in the current lesson.
- The teacher notices the wrong concepts or difficulties that appear at the stage of showing off previous experiences, therefore, it should be toleratedteaching methods in the next stages.

Worksheet (3)

Find the quotient:	•
10÷4=	410
7÷2=	27
8÷5=	58
4÷3=	34

Calculate the quotient in the following and check your answer:



Worksheet (5)

Calculate the quotients in the following and check your answer.



Worksheet (6)

Calculate the quotients in the following and check your answer.



Division by a number of one digit.



Worksheet (8)

Calculate the quotient in the following and check your answer:



Worksheet (9)



Worksheet (1)

Find the divisors for the following numbers:		
A)) 12	
B)	16	
C)	024	

Worksheet (2)



16 , 24
Worksheet (3)

Find the common divisors of the following numbers:

12, 16, 24

Worksheet (4)

Find the common divisors of the following numbers:

10, 25, 35

Worksheet (5)

Find the greatest common divisor of the following two numbers:

16,24

Worksheet (6)

Find the greatest common divisor of the following numbers:

12, 16, 24

Find the greatest common divisor of the following numbers:

10, 30, 50

Worksheet (8)

Underline the prime numbers:

1, 3, 4, 5, 7, 9, 10, 13

List the divisors of each of the following numbers:

15, 20, 27

Worksheet (10)

Find the L.C.M of the following two numbers:

8,12

Find the least common multiple of the following numbers:

15, 30, 60

Worksheet(12)

write the first ten multiples of the following numbers:



write the first ten multiples of the following numbers:

10, 100, 1000

Worksheet (14)

write two common multiples of the following numbers:

6,8

Find the L.C.M of the following two numbers:

12,8

Worksheet (16)

Find the G.C.D and the L.C.M of the following numbers:

15, 30, 60

Worksheet (1)





Perform the subtraction and color relatively to the answer.







Worksheet (4)

Complete the following table.

The representation	Improper fraction	Mixed number



.....

.....

.....

.....



Worksheet (5)

.....

.....

.......

.....

.....

.....







Compare each two mixed numbers by using (<:>or =):

$$2\frac{1}{5} \qquad 2\frac{3}{5}$$

$$4\frac{2}{3} \qquad 4\frac{2}{7}$$

$$8\frac{1}{3} \qquad 7\frac{3}{5}$$

$$5\frac{1}{3} \qquad 5\frac{2}{7}$$

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Worksheet (8)

Compare each two mixed numbers by using (< ; > or =):

$$6 \frac{3}{5} \qquad 6 \frac{1}{5}$$

$$3\frac{2}{3}$$
 $4\frac{2}{7}$

$$7 \frac{3}{5}$$
 $7 \frac{1}{3}$

$$5\frac{1}{3}$$
 $4\frac{2}{7}$







Use the axis of numbers and the representation to find the sum





Use the axis of numbers and the representation to find the sum





$$* 1\frac{1}{4} + 3\frac{1}{2} = \dots$$

$$* 3 \frac{2}{5} + 4 \frac{1}{3} = \dots$$

*
$$1\frac{1}{4} + 2\frac{5}{6} = \dots$$







Find the difference in the simplest form:

$$* 3\frac{1}{2} - 1\frac{1}{4} = \dots$$

$$* 4 \frac{2}{5} - 3 \frac{1}{3} = \dots$$

$$* 2 \frac{5}{6} - 1 \frac{1}{4} = \dots$$

Lesson (8) Multiplication and division of fractions and decimal numbers

Worksheet (1)

Complete the following computation.

	Fraction	Addition of fractions	Subtraction of fractions
1)		$\frac{3}{5} + \frac{1}{5} = \frac{1}{5}$	$\frac{4}{5} - \frac{1}{5} = \frac{1}{5}$
		$\frac{1}{5} + \frac{3}{5} = \frac{1}{5}$	$\frac{4}{5} - \frac{3}{5} = \frac{-1}{5}$
2)		$\frac{5}{7} + \frac{1}{7} = -\frac{1}{7}$	$\frac{6}{7} - \frac{1}{7} = -\frac{1}{7}$
	\checkmark	$\frac{1}{7} + \frac{5}{7} = -\frac{1}{7}$	$\frac{6}{7} - \frac{5}{7} = -\frac{7}{7}$
		1	
3)	$\langle \rangle$	$\frac{2}{8} + \frac{3}{8} =$	$\frac{5}{8} - \frac{2}{8} =$
	$\frac{3}{8} + \frac{2}{8} =$	$\frac{5}{8} - \frac{3}{8} =$	
4)		$\frac{3}{10} + \frac{4}{10} =$	$\frac{7}{10} - \frac{3}{10} =$
		$\frac{4}{10} + \frac{3}{10} =$	$\frac{7}{10} - \frac{4}{10} =$

Complete the following Table.



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Perform the following computation.

(1	45	$x \frac{3}{4}$	- =		
(2	<u>4</u> 9	+ <u>2</u> 5	- =		
(3	<u>6</u> 5	x6	- =		
(4	 7	÷ _2 9	- =		
(5	38	x <u>4</u> 9	- =		
(6	<u>9</u> 10	+ 3	- =		
(7	-7	x5	- =		
(8	<u>5</u> 3	+ <u>7</u> 12	- =		
(9	83	x $\frac{5}{2}$	- =		
(10	<u>2</u> 9	+ 5/12	- =		
(11	<u>10</u> 7	x <u>9</u> 5	- =		3.5
(12	<u>6</u> 5	+ 4	- =		4

Diagnostic Worksheet (4)

Perform the following divisions.

1)	5	1 3	÷	4	=	
2)	7	3 4	÷	5	=	
3)	2	5	÷	7	=	
4)	4	3	÷	2	=	
5)	2	5	÷	3	=	
6)	7	4	÷	2	=	
7)	3	5 1 1	÷	6	=	
8)		<u>56</u> 9	÷	6	=	
9)	16	3 4	÷	5	=	

Worksheet (5)

Complete by the missing fractions on the number line











Observe the multiplication operation, then find the product





Observe the multiplication operation, then find the product





Worksheet (12)					
xpress each representation:					

Worksheet (13)



Complete as the example:

Examples: $\frac{8}{3} \times \frac{4}{5} =$	$\frac{32}{15} = 2 \frac{2}{15} \frac{4}{7} \mathbf{x}$	$5 = \frac{20}{7} = \frac{6}{2}$
1) $\frac{1}{3}$ x 8 =	2) $\frac{2}{5} \times \frac{1}{6} =$	3) $\frac{5}{2} \times \frac{3}{4} =$
4) $\frac{4}{7}$ x 6 =	5) $\frac{5}{8} \times \frac{1}{4} =$	6) <u>2</u> x 7 =
7) $\frac{9}{4} \times \frac{4}{7} =$	8) 6 x $\frac{3}{11}$ =	9) $\frac{5}{7} \times \frac{3}{4} =$
10) $\frac{11}{8} \times \frac{2}{3} =$	11) $\frac{6}{15} \times \frac{4}{3} =$	12) 11 x $\frac{4}{5}$ =
13) $\frac{10}{7}$ x $\frac{3}{8}$ =	14) $\frac{2}{9} \times \frac{7}{3} =$	15) $\frac{12}{5} \times \frac{3}{11} =$
16) $\frac{7}{8}$ x 9 =	17) $\frac{2}{15} \times \frac{9}{4} =$	18) 9 x $\frac{7}{11}$ =
19) $\frac{3}{10} \times \frac{9}{5} =$	20) $\frac{6}{13}$ x 12 =	21) $\frac{8}{3}$ x $\frac{4}{9}$ =
22) $\frac{12}{5} \times \frac{2}{9} =$	23) $\frac{8}{3} \times \frac{4}{11} =$	24) $\frac{6}{5}$ x $\frac{8}{7}$ =
Worksheet (15)

Complete as the example:

$\frac{8}{3}$ x $\frac{3}{5}$ = $\frac{8x3}{3x5}$ = $\frac{8}{5}$	$\frac{4}{7}$ x 5 = $\frac{4x5}{7}$ = $\frac{20}{7}$
1) $\frac{1}{3}$ x 8 = $\frac{1x8}{3}$ = $\frac{1}{3}$	2) $\frac{2}{5}$ x $\frac{1}{2}$ = $\frac{2x1}{5x2}$ = $\frac{-5}{5x2}$
3) $\frac{5}{2}$ x $\frac{3}{4} = \frac{5x3}{2x4} = \frac{5x3}{2x4}$	4) $\frac{4}{7}$ x 6 = $\frac{4x6}{7}$ =
5) $\frac{5}{8}$ x $\frac{1}{5}$ = =	6) $\frac{2}{9}$ x 7 = =
7) $\frac{9}{4}$ x $\frac{4}{7}$ = =	8) 6 x $\frac{3}{11}$ = =
9) $\frac{11}{8} \times \frac{2}{3} ===$	10) $\frac{7}{15} \times \frac{4}{7} ==$
11) $\frac{4}{15}$ x $\frac{9}{4}$ = =	12) 9 x $\frac{7}{11}$ = =
13) $\frac{6}{15}$ x $\frac{4}{3}$ = =	14) $\frac{6}{5}$ x $\frac{8}{7}$ = =
15) $\frac{8}{3}$ x $\frac{4}{9}$ = =	16) $\frac{12}{5} \times \frac{2}{9} == =$

Perform the following multiplications .

1)	$\frac{3}{5}$ x $\frac{2}{3}$ =	2) $\frac{1}{4} \times \frac{5}{6} =$	3) $\frac{4}{9} \times \frac{2}{3} =$
4)	$\frac{1}{8} \times \frac{5}{8} =$	5) $\frac{3}{7}$ x 8 =	6) $\frac{2}{9} \times \frac{6}{5} =$
7)	$\frac{2}{3}$ x 8 =	8) $\frac{5}{7}$ x $\frac{3}{10}$ =	9) $\frac{7}{4} \times \frac{4}{5} =$
10)	$\frac{6}{15} \times \frac{4}{7} =$	11) 6 x $\frac{3}{4}$ =	12) $\frac{9}{5} \times \frac{4}{9} =$
13)	$\frac{10}{7}$ x $\frac{4}{5}$ =	14) $\frac{4}{3}$ x $\frac{8}{5}$ =	15) <u>10</u> x 7 =
16)	$\frac{5}{3}$ x $\frac{8}{5}$ =	17) 7 x $\frac{4}{5}$ =	18) $\frac{6}{7}$ x $\frac{9}{4}$ =
19)	$\frac{4}{9}$ x 12 =	20) $\frac{3}{11}$ x $\frac{8}{3}$ =	21) $\frac{6}{7}$ x $\frac{3}{8}$ =
22)	$\frac{9}{7}$ x $\frac{5}{8}$ =	23) $\frac{7}{10}$ x $\frac{9}{2}$ =	24) $\frac{11}{12}$ x 6 =



Observe the example then complete the division operation



Observe the example then complete the division operation as the

example

Example:
$$\frac{3}{8} \div 6 = \frac{3}{8} \div \frac{6}{1} = \frac{3}{8} \times \frac{1}{6} = \frac{3}{48} = \frac{1}{16}$$

1) $\frac{1}{5} \div 6 = \frac{1}{5} \div \frac{6}{1} = \frac{1}{5} \times \frac{1}{6} = ---$
2) $\frac{4}{9} \div 8 =$
3) $\frac{5}{9} \div 4 =$
4) $\frac{7}{9} \div 10 =$
5) $\frac{3}{10} \div 8 =$
6) $\frac{5}{11} \div 3 =$
7) $\frac{4}{15} \div 6 =$
8) $\frac{7}{12} \div 8 =$

Observe the example then complete the division operation

Example:	2 2 5	_ + 4 =	$\frac{12}{5} + \frac{4}{1}$	$=\frac{12}{5} \times \frac{1}{4}$	$\frac{12}{20} = \frac{3}{5}$
1) $1 \frac{2}{3}$	* 6	$= \frac{5}{3}$	$+ \frac{6}{1} =$	$\frac{5}{3}$ x $\frac{1}{6}$	=
2) 3 $\frac{1}{4}$	+ 5	-			
3) 1 $\frac{3}{5}$	+ 6	-			
4) $\frac{4}{9}$	+ 8	-			
5) 2 $\frac{2}{3}$	+ 6	-			
6) <u>4</u> 11	+ 10	=			
7) 3 $\frac{4}{5}$	+ 8	-			

Perform the following computation.

(1) $\frac{2}{9} \times \frac{1}{2} =$	13) $\frac{5}{6} \times \frac{4}{7} =$
(2) $\frac{3}{5} + \frac{2}{3} =$	14) $\frac{2}{7} \div \frac{1}{3} =$
(3) $\frac{3}{8} \times \frac{5}{6} =$	15) $\frac{1}{9} \times \frac{3}{4} =$
(4) $\frac{3}{8} + \frac{3}{7} =$	16) $\frac{4}{5} \div \frac{2}{5} =$
(5) $\frac{4}{7} \times \frac{3}{8} =$	17) $\frac{3}{8} \times \frac{2}{5} =$
(6) $\frac{7}{6} \div \frac{3}{4} =$	18) $\frac{3}{4} \div \frac{1}{4} =$
(7) $\frac{4}{3} \times \frac{3}{5} =$	19) $\frac{7}{2} \times \frac{4}{9} =$
(8) $\frac{5}{6} \div \frac{2}{3} =$	20) $\frac{2}{9} + \frac{4}{5} =$
(9) $\frac{2}{7} \times \frac{7}{9} =$	21) $\frac{6}{5} \times \frac{3}{7} =$
10) $\frac{5}{4} + \frac{2}{3} =$	22) $\frac{5}{2} + \frac{7}{8} =$
11) $\frac{4}{3} \times \frac{2}{7} =$	23) $\frac{5}{7} \times \frac{6}{5} =$
12) $\frac{7}{4} + \frac{5}{8} =$	24) $\frac{8}{3} + \frac{4}{7} =$

Lesson (9) Decimal Numbers

Worksheet (1)

Question One: Distinguish the following numbers (Proper fraction, decimal number)

Questions Two: Write the place value digit for the marked digit.

13.5 <mark>8</mark> 1	6	2. <mark>6</mark> 87	, 27.009
-----------------------	---	----------------------	----------

Question Three: Write the decimal numbers in words.

0.48	
2.159	
43.76	

Question Four: Convert from decimal fractions into decimal numbers and vice versa

$\frac{7}{2} = $	_
4 0.217_	
0.31/= 22	-
$\frac{32}{2} = $	
200	
[/.I3=	

What do you know about	How do you want to learn	What did you learn about
decimal fractions, decimal	abour decimal fractions,	decimal fractions, decimal
numbers and proper	decimal numbers and	numbers and proper
fractions	proper fractions	fractions
Talk methematically about	Talk about expectations	Check what did you
your prerequist	methods, pattern of your	understand and how you
	learning	reach to your expectations

- You can speak orally to determine your past experiences, and the teacher notes them.
- The teacher helps the students to set their expectations.
- The teacher provides feedback to the students and provides them with activities and exercises during the course to achieve their goals in the current lesson.
- The teacher notices the wrong concepts or difficulties that appear at the stage of showing off previous experiences, therefore, it should be toleratedteaching methods in the next stages.

Worksheet(3)

Question One: Distinguish the following numbers (Proper fractions, decimal numbers, decimal fractions)



Question 1: Write in words the following numbers

0.128	
0.49	
16.298	
431.604	
149	
1000 87	
100	

Question Two: Write in digits the following numbers Nine tenth Four hundred fifty-three thousandths Fifty-seven and eight hundred forty-nine thousandths

Question three: Complete the following table

Number in	Number in words	Tenth's digit	Hundredth's digit	Thousandth's
digits				digit
0.371		••••		
	Twenty-four	••••	•••••	
	hundredths			
		5	8	5

Worksheet (5)

Question One: Convert the following into decimal numbers.

10) -7 =	11) <u>11</u> =	12) <u>16</u> =	13) <u>19</u> =
14) $\frac{20}{6}$ =	15) <u>23</u> =	16) $\frac{26}{7}$ =	17) <u>31</u> =
18) $\frac{87}{10}$ =	19) <u>93</u> =	20) <u>98</u> =	

Question Two: Convert from decimal numbers into fractions.

1)	0.3	-	=
2)	0.2	=	=
3)	0.18	=	=
4)	0.92	=	=
5)	0.25	=	=
6)	0.14	=	=
7)	0.27	=	=
8)	0.546	=	=
9)	0.864	=	=
10)	2.45	=	=

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Worksheet(6)

Question One: Compare by using > , < or =



Question two: Arrange the following numbers in an increasing order

A) 11.5 - 11.695 — 12.02 — 12	B) 12.02 - 12 - 11.5 - 11.695
C) 11.695 – 11.5 – 12 – 12.02	D) 11.5 - 11.695 - 12 - 12.02

Question One: Represent the following fractions by using colors

0	7

0.98

•

Question Two: Represent the following decimal numbers and decimal fractions on the number line

$$0.2$$
 , 5.9 , 2.75 , $\frac{25}{100}$

Questions Three: Represent the following decimal numbers by using the place value table: 22389.649 , 6445901.55 , 456229.315

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Worksheet(8)

Question One: [Distinguish the following	numbers (Proper fractions, decimal fractions)
297	13	17
100	100	22
0.095		$\frac{2}{7}$
Questions Two:	Write the place value dig	git for the marked digit.
3468.794	14.9 <mark>8</mark> 1	
Question Three:	Write the following nun	nbers in words
4989.147		
62895.389		

122486.22

Worksheet 9

Question one: convert the following fractions into decimal numbers

98	7		3
$\frac{1}{250}$ =	 , <u>20</u>	=,	$\frac{-}{5} = \dots \dots \dots$
54	33		11
5	 , <u> </u>	···· ··· ··· ,	$\overline{9} = \dots \dots \dots$

Question Two: convert the decimal numbersinto fractions :

0.371 =	,	0.013 =
3.48 =	,	12.8 =

Question Three: Write the following numbers in digits:

Twenty- three and fifty- one thousandths

Three million seven hundred and fifty – four hundredths

Worksheet(10)

Question One: Decompose the following numbers

36284921.049

4698164.32

89464.98

Question Two: compare using (< ; > or =):



Question three : given an example from a daily life were you use the following fractions and decimal numbers (answer orally).

 $\frac{2}{5}$ 66.5 2.4

Question Four: Arrange the following fractions in an increasing order

88.91 , 89.8 , 88.09 , 88.9

Question Five: Arrange the following decimal fractions in a decreasing order.

22.32 , 23.22 , 22.23 , 22.023

The topic (10): Adding and subtracting fractions and decimal numbers

Worksheet (1)

a. Write the decimal fraction that represents the shaded parts in each shape.



b. Write in digits the decimal number that represents the shaded parts in each.

=	
=	

c. Circle the digit that represents the given place value, then complete.

- 1. Number: 42.3068
- 2. Number: 3.5039
- 3. Number: 12.6245
- 4. Number: 345.680

The digit	represents	hundredths.
The digit	represents	tenths.
The digit	represents	thousandths.
The digit	represents	tens.

a. Cars race:

This training is about using the students a group of cards having pictures of some cars.

<u>Above</u> each car there is a decimal number and <u>under</u> it there is a specific place value.

The students should choose from the above decimal number the digit that represents the given place value.



b. Circle the numbers that represents the given place value in each.

1. Five tenths	(13.516 / 26.53 / 50.12)
2. Nine hundredths	(23.59 / 951.92 / 123.45)
3. One thousandths	(9.801 / 52.581 / 0.41)
4. Six thousandths	(413.56 / 4.106 / 2.356)

a) perform the following additions.

27.15	17.24	6.75
+ 13	+ 23.1	+ 5.48

b) perform the following additions.

38.437	37.731	3.652
+ 24.12	+ 18.4	+ 9.686

Worksheet (4)

- perform the following additions:
 - 1. $13.62 + 6.29 = \dots$
 - 2. 37.4 + 15.68 =
 - 3. 68.5 + 2.638 =
 - 4. $772 + 1.073 = \dots$

Worksheet (5)

A bus from Tripoli to Beirut, covered 257.394 km, then it took a break for an hour, then it covered 164.710 km, after that it took another break for half an hour, then it covered 216270 km, finally reaching Beirut. Calculate the distance between Tripoli and Beirut in km.

• The givens:		
	• • • • • • • • • • • • • • • • • • • •	
		 •••
• The required question:		 ••••
• The operations:		
T the second sec		
	• • • • • • • • • • • • • • • • • • • •	 • • • • • • •
• The solution:		 • • • • • • •
• Checking:		

Worksheet (6)

Baraa bought a shirt for 300.25 L.P, shoes for 320.75 L.P and pants for 250.50 L.P.

What is the total sum of money paid by Baraa?

Yasser bought 4.5 m of fabric for 78.25 L.P, shoes for 178.75 L.P and 7 socks for 12.5 L.P each. Find the total sum of money paid by Yasser.

Worksheet (8)

• Subtract:

3.9	48.7	59	89
- 1.28	- 5.3	- 6.8	- 13.7

Worksheet (9)

- Subtract:
 - 1) $6.12 0.054 = \dots$
 - 2) $21.15 0.025 = \dots$
 - 3) 0.5 0.4982 =
 - 4) 6.315 3.125 =
 - 5) 61.39 3.4 =

The length of a road is 53.75 km.

23.5 km of this road was paved.

Find the left unpaved part.

Yasser went to the market having 95.5 L.L. He bought a shirt for 25.75 L.L, shoes for 23.5 L.L and pants for 30.25 L.L. What is the total sum paid by Yasser and the amount of money left with him?

• ′	The givens:
• ′	The required question:
• ′	The operations:
• '	The solution:
•	Checking:

- > Write (True) for the correct statement and (False) for the wrong statement.
 - 1. 0.38 0.174 = 0.211 (.....)
 - 2. 24.2 1.79 = 0.33 (.....)
 - 3. 7.2 2.9 = 5.5 (.....)
- > There are 3 cards each one has 10 stars (Consider that, 10 stars = 1), Waleed took 10 stars from the first card and 4 stars from the second. The number of stars with Ahmad will be:



(D) 1.6

Choose the correct answer:

1. A basket has 15.8 kg of fruits. we took away 3.2 kg. the remaining weight of fruits is:

(a) 1.206 kg.	(b) 1.26 kg
(c) 12.06 kg	(d) 12.6 kg

2. Hala has 12.9 L.L, she gave her sister 7.83 L.L. how much does she have left:

(a) 5.007 L.L	(b) 5.07 L.L		
(c) 5.47 L.L	(d) 5.74 L.L		

3. In a swimming competition Zaid covered 65.5 m out of 90.684 m. How many meters did he not cover?

(a) 25.148 m	(b) 25.184 m		
(c) 52.148 m	(d) 52.184 m		

4. Ibrahim bought a shirt for 300.25 L.L, shoes for 320.75 L.L and pants for 250.50 L.L.

Find the total amount of money paid by Ibrahim.

The operation is used to calculate the paid amount:

- (a) Addition (b) subtraction
- (c) multiplication (d) division

Worksheet (12)

• Choose the correct answer:

1. A number formed of a whole number and decimal number is a:

- a) Decimal number c) Decimal fraction
- b) Whole number d) fraction of a number

2. The number that contains the decimal part (nine hundredths) is:

a) 123.45	c) 23.59
b) 951.92	d) 597.26

3. A decimal number > 0.487 is:

a) 0.42	c) 0.49
b) 0 39	d) 0 24

4. $31.27 + 57.3 + 4.98 \approx \dots$

a) 90	c) 93
-------	-------

b) 92 d) 95

Worksheet (15)

•Match:

Group (1)
0.231 + 0.643 =
0.9 + 0.475 =
21.5 + 49.804 =
25.32 + 32.06 =

Group (2)
57.38
71.304
17.304
0.874
1.375
0.565

Students enter this link to practice on adding and subtracting fractions and decimal numbers.

https://math-center.org/ar-SA/tests/5th/

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	Supplementary	worksheet (1)
Calculate:		
3	.9	28.7
+ 28	.1	+ 13.53

- 2. Zaid has 3 shops. The rent of the first is 720.75 L.L, the second is 650.50 L.L and the third is 550.25 L.L. What is the total amount of money paid for rent?
- 3. A bus from Tripoli to Beirut, covered 257.394 km, then it took a break for an hour, and it covered 164.710 km, after that it took another break for half an hour, then it covered 216.27 km, finally reaching Beirut. Calculate the distance between Tripoli and Beirut in km.

1.



- 1. The sum of numbers in any row, column or diagonal are equal.
- 2. Sum of the numbers in any row or column = 4.2

1.1		
	1.4	
1.3	1.2	1.7

Supplementary worksheet (3)

(a)	Subtract:	
1.	215.62 - 9.8 =	
2.	45.4 - 29.489 =	
3.	0.78 – 0.678 =	
(b)	Write (True) for the correone.	ct statements and (False) for the wrong
	1) $0.38 - 0.174 = 0.211$	()
	2) $24.2 - 1.79 = 0.33$	()
	3) $7.2 - 2.9 = 5.5$	()
	4) $0.9 - 0.897 = 0.003$	()
Supplementary worksheet (4)

Find the answer then write the type of mathematical operation you used .

- A road of length 55 km.
 25.87 km of it was paved. Find in kilometers the left unpaved part?
- 2. A seller has 930.525 kg of orange. He sold 475 kg at the first day, and 374.25 kg at the second day. How many kilograms of orange are left?

3. The distance between the gym and Zaid's house is 0.943 km. He walked 0.54 km of it. How long is left for Islam to reach the gym?

Supplementary worksheet (5)

1. One of the steps to add decimal numbers is:

- (a) Arranging the decimal points up to each other.
- (b) Adding numbers as adding whole numbers.
- (c) Keeping the decimal point in its place in the answer.
- (d) All the above

2. The decimal number 0.41 > 0.389 because:

- (a) The tenths of the first decimal > tenths of the second.
- (b) The hundredths of the first decimal > hundredths of the second.
- (c) The tenths of the second decimal > tenths of the first.
- (d) All the above
- **3.** Complete: 7.45 2.24 = 9.69
 - **(a)** +
 - **(b)** –
 - (c) x
 - **(d)** ÷

Fill in with the appropriate sign (+, -) the empty squares such that the vertical sum and horizontal sum = 18.4

6.6	4.8	3.4
3.5	14.6	7.3
15.3	4.6	7.7



Supplementary worksheet (7)

Complete with the appropriate number so that the equality is true.



Topic (11) – Rounding of whole and decimal numbers

Worksheet (1)



Safaa has 40 Dinar. She bought a dress for 12.95 L.P, sweets for 5.20 L.P and toys for 14.76 L.P. Round Safaa's payments to the nearest tenths.







=

Rami rounded the number (3.546) to (3.550). What is the place value of the rounded digit? Justify.



Worksheet (4)



The profit of a big company is (357.41) L.P in a year and (395.83) L.P during the next year. How much did the company earn, in L.P, in the two years? " Round to nearest ones"



Worksheet (5)



A charity sold hand crafts for (24.91) L.P in a month. Estimate its sales in 4 months. Round the sales to the nearest ones





Choose the correct answer: 1. A swimmer covered a distance 500 m in 4.73 min. Round the time needed by the swimmer to the nearest whole. **(b)** 5 **(a)**4 **(c)** 7 **(d)** 8 2. Round the number (2001.025) to the nearest hundredths. **(a)**2001 **(b)** 2001.0 (c) 2001.02 (**d**) 2001.03 3. Karama's company produced (19.985) kg of grape's jam. Round this number to the nearest tenths. **(a)** 19.0 (**d**) 20.00 **(b)** 19.98 (c) 19.99

Worksheet (8)

Exercise 1: Choose the correct answer:

- The speed of the wind on a day of the year is 32,275 km/h. the nearest whole number to this speed is:
 (b) 322
 (b) 300
 (c) 32
- Rounding 7.995 to the nearest tenths is:
 (b) 7
 (b) 7.5
 (c) 8
- Rounding 2.499 to the nearest hundredths is:
 (b) 2.4
 (b) 2.50
 (c) 3
- Rounding 0.329 to the nearest tenths is:
 (b) 0.3
 (b) 0.33
 (c) 0.4
- Which decimal number rounded to the nearest tenths gives 15? (a) 14.29 (b) 14.73 (c) 15.8

Worksheet (9)

XXXXXXXXXXXXXXXXXXXXXXXX



• Use rounding to the nearest whole to estimate the following:





Rounding decimal numbers

First question

If we round 12.364 to the nearest tenths does it become 12.4?

Worksheet (12)

2) 2,8 →	3) 6,5 →
5) 1,4 →	6) 9,0 →
8) 2,4 →	9) 5,7 →
11) 12,3 →	12) 14,1 →
14) 26,6 →	15) 32,5 →
17) 14,8 →	18) 40,6 →
20) 63,4 →	21) 35,3 →
23) 8,72 →	24) 2,48 →
	2) 2,8 \rightarrow 5) 1,4 \rightarrow 8) 2,4 \rightarrow 11) 12,3 \rightarrow 14) 26,6 \rightarrow 17) 14,8 \rightarrow 20) 63,4 \rightarrow 23) 8,72 \rightarrow

/• Round these numbers to the nearest ones

• Draw an arrow to match each number to its corresponding rounded number to the nearest whole



Worksheet (13)



Worksheet (14)

• Underline the rounding to nearest half in each of the following:



• true or false:

** **	$2\frac{7}{8}$ is nearest to. ()		
5 6 7 8 9	$2\frac{9}{10}$ is nearest to half of 2. ()		

Worksheet (15)

Rounding Decimal Numbers

• Round each of the following to the specific place value:



Exercise 1: Choose the correct answer:

The rounding of the number 0.053 to the nearest hundredths is: •

	(c) 0.06	(b)	0.05		(a) 0.054
• Tł	ne rounding of th	e number 3	36.81 to the 1	nea	arest ones is:
	(a) 36	(b) 37			(c) 37.81
• Tł	ne rounding of th	e number 8	3.17 to the ne	ear	rest tenths is:
	(a) 8.2	(b)	8.1		(c) 9
• Tł	a rounding of th	a number 4	57.000 to the		earest hundredths is
• 11	(a) 57		59		(c) 57 01

Exercise 2: use $\sqrt{}$ or X:

- Rounding 11.8 to the nearest ones is 12.
- Rounding 0.016 to the nearest hundredths is 0.01.
- Rounding 249 to the nearest hundredths is 1300.
- Rounding 69.66 to the nearest tenths is 69.7.



_	· · · ·	<u> </u>



Remember that:

To round any normal fraction to one of the values $0, \frac{1}{2}, 1$ Apply the following:

- When the fraction is less than $\frac{1}{4}$ it is rounded to 0.
- If the fraction is greater than or equal to $\frac{1}{4}$ and less than $\frac{3}{4}$ it is rounded to $\frac{1}{2}$.



- If the fraction is greater than or equal to $\frac{3}{4}$ it is rounded to 1.

1. Round each of the following to the nearest tenths

 $4\frac{53}{100}$, $2\frac{3}{4}$, $1\frac{1}{4}$

Knowing that:

 $1\frac{1}{4} = 1.25$ (to the nearest tenths) =

 $2\frac{3}{4} = 2.75$ (to the nearest tenths) =

 $4\frac{53}{100} = 4.53$ (to the nearest tenths) =

The topic (12): Intersecting, perpendicular and parallel lines.

Worksheet (1)







Worksheet (4)





- Name two perpendicular lines
- Name two parallel lines





S

А



then: mes (SĜO) = mes (.....) =°









The topic (13): The Circle.

Worksheet (1)

In the adjacent figure:	
A circle of center M.	
<u>Complete:</u>	
Radii :,,,,	D
Diameter of a circle:	(M)
Chords of a circle,,,	C B

Worksheet (2)

Draw a circle of radius 4cm. Then draw the diameter AB.

Worksheet (3)

Match each word with its corresponding element:



Worksheet (4)

A circle of perimeter 88 cm, find the length of its diameter, knowing that $\Pi = \frac{22}{7}$

Worksheet (5)



A circular pool of radius (14 m).

Calculate its perimeter.

Worksheet (6)

Given two circles.

The center of the first is M, and the length of its radius is 7 cm.

The second of center N, and the length of its radius is 9 cm.

Calculate the ratio of the two perimeters.

Worksheet (7)

A circle of diameter 35 cm, find its perimeter, knowing that $\Pi = \frac{22}{7}$ A circle of perimeter 44 cm, find the length of its radius, knowing that $\Pi = \frac{22}{7}$

Worksheet (9)

A person rotated around a piece of circular area of diameter 100 m.

Calculate the distance he covered knowing that $\Pi = 3.14$

Worksheet (10)

A circular garden of diameter 21 m; we plan to surround it by a fence.

Calculate the length of the required fence.

Worksheet (11)

Diameter of a circle = 8 cm, calculate its perimeter?


Worksheet (12)

A circle has a Perimeter equal to 44 cm, calculate its radius.



The topic (14): Triangles

Worksheet (1) Diagnostic.

• Observe the following triangles, then choose the similar ones.



Determine the type of each triangle with respect to its angles.





Identify the symmetrical shapes, then draw one axis of symmetry for each figure.









Worksheet (5)

Find the type of each transformation (translation or symmetric)



.....

.....

•••••

.....



Worksheet (6)

Observe then complete:

		-
2		
		_
		-
4	3	
 	—	

Use the following words: right left up down

The form ... is the image of the form ... by moving 6 squares in the direction

The form ... is the image of the form ... by moving 5 squares in the direction

The form ... is the image of the form ... by moving 5 squares in the direction

The form ... is the image of the form ... by moving 6 squares in the direction

Observe the following square, then complete:

2	1
О 3	4

The square 2 is the image of the square 1 by rotation around the point O and of angle ...

The square 3 is the image of the square 1 by rotation around the point O and of angle ...

The square 4 is the image of the square 1 by rotation around the point O and of angle ...

The following form is a square, complete:



Note: All the angles around the point O are equal to 45°

The triangle 2 is the image of triangle 1 by rotation around the point O and of angle ... The triangle 3 is the image of triangle 1 by rotation around the point O and of angle ... The triangle 4 is the image of triangle 1 by rotation around the point O and of angle ... The triangle 5 is the image of triangle 1 by rotation around the point O and of angle ... The triangle 6 is the image of triangle 1 by rotation around the point O and of angle ... The triangle 7 is the image of triangle 1 by rotation around the point O and of angle ... The triangle 8 is the image of triangle 1 by rotation around the point O and of angle ...

The triangle $\frac{8}{1}$ is the image of triangle $\frac{1}{1}$ by rotation around the point O and of angle ...

Diagnostic worksheet (1)¹

Calculate the area of the following figures.



Worksheet (2)

• Draw different squares, then calculate the area of each square by counting the square units:



Worksheet (3)

- Calculate the area of each square by counting the square units.
- Determine the length of the side of the square by using the unit of length.
- Conclude the area of the square.



Calculate the area of each square by using the rule.



Worksheet (4)

- Draw a square in each colored part (different squares).
- Calculate the area of each square in two ways, then find the sum of areas of all the squares.





Worksheet (5)

Notice the area of each parallelogram.

Worksheet (6)





Worksheet (7)

Calculate the area of each parallelogram.



Notice the area of the triangle:





Calculate the area of each triangle:



Worksheet (10)

Calculate the area of each triangle:





Find the area of the shaded part.



Calculate the area of each triangle.



Calculate the area of each figure.





The topic (17): The properties of mathematical operations

Worksheet (1)

Observe then complete:

a.	$28 + 65 = \dots + 28$	property
b.	$77 = \dots + 77$	property
c.	$(25 + 15) + 9 = 25 + (\dots + 9)$	property
d.	$\dots = 63 + 0$	property

Worksheet (2)

Calculate then complete with the appropriate property:

a.	$(45+5)+7 = \dots$	property
b.	5 + 3 + 12 =	property
c.	$10 + 4 + 20 + 17 = \dots$	property
d.	27 + 44 + 13 +65 =	property

Worksheet (3)

True ✓ or False × :

- a. Zero is the neutral element in addition.
- **b.** 8 9 = 9 8.
- c. The neutral element in addition process in the number 1.
- d. Associative property is a property of addition process.
- e. Both of addition and subtraction have the same properties.

Complete by writing (equals or not equals), as in the following example:

Example: 3 - 8 is not equal to 8 - 3

- **a.** 399 + 10 10 + 399
- **b.** $28 0 \dots 0 28$
- **c.** 86.923 + 0 86.923
- **d.** $7 + (100 + 752) \dots (7 + 100) + 752$
- e. $30 (100 50) \dots 100 (50 30)$
- f. $50 + (600 500) \dots (500 + 50) 600$

Worksheet (5)

Write the corresponding equation to each figure:





What do you conclude?

. . . .

Worksheet (6)

Complete with the appropriate number and property:

a.	$\dots = 0 \times 3$	property
b.	$\dots = 8 \times 1$	property
c.	$\dots = 75 \times 0$	property
d.	$5 \times \ldots = 6 \times 5$	property
e.	$123 = 1 \times \dots$	property
g.	$0 = 300 \times \dots$	property
h.	$\dots \times 3 = 3 \times 600$	property
k.	$(5 \times \dots) \times 4 = 5 \times (2 \times 4)$	property

Worksheet (7)

Complete the table as in the example:

		dividend	divisor	division operation	remainder
Example		12	5	12 ÷ 5	2
	1	20	4		
	2		2	16 ÷ 2	
	3	30	3		
	4			72 ÷ 9	

Use the priority rule to calculate the following expressions:

a. $12 \times 5 \div 6 =$ b. $21 + 9 \times 6 =$ c. $180 \div 10 + 7 - 3 =$ d. $7 + (60 - 15) \div 5 =$

Worksheet (9)

True ✓ or False × :	
a. $10 \times (5-5) = 45$	()
b. $2 \times 3 + 8 \div 4 = 8$	()
c. $5 \times 3 \div 5 = 3$	()
d. $400 - 200 + 100 = 100$	()
e. $36 \div 4 - 9 = 0$	()
f. $7 \times 8 \div 4 - 2 = 12$	()
g . To find the result of $22 \div 2 + 9 \times 3$, we add 2 and 9 first	()
h. $17 \times (15 - 8) + 2 = 121$	()

Worksheet (10)

Ch	oose the correct	answer:				
1.	$20 \div 4 - 3 = \dots$	•••••				
	a. 3	b. 2	c.	20	d.	1
2.	$5 \times 3 - 15 = \dots$	•••••				
	a. 0	b. 1	c.	5	d.	3
3.	$20-18 \div 2+5$	=				
	a. 13	b . 16	c.	10	d.	6
4.	$30 - 4 \times (2 + 1)$	=				
	a. 102	b. 28	c.	18	d.	78

Worksheet (11)

Use the priority rule to calculate the fo	ollowing expressions:
1. $8 \times 2 + 13 = \dots$	2. $3 \times 5 - 4 =$
3. 20 – 9 + 5 =	4. $(4 \times 3) + 2 =$
5. $20 \div 5 + 5 = \dots$	6. $5 + 8 \div 2 =$
7. $10 - (6 \div 2) = \dots$	8. $5 \times 6 - 12 =$
9. $2 \times 6 \div 3 = \dots$	10. $8 \div (4-2) =$
11. $80 \div 8 - 7 = \dots$	12. $30 \div 4 \times 5 =$
13. 200 - 80 × 2 =	14. $5 + 5 + 5 \times 4 =$
15. $89 + 2 - 4 \times 3 = \dots$	16. $18 \times 2 + 8 - 3 =$
17. $100 - (4 + 7) \times 9 = \dots$	
18. $99 - 10 \times 9 + 7 = \dots$	


1. Write the type of the following triangles with respect to their angles without using the protractor:











Determine the type of the triangle with respect to its sides:



Fill in the following table:

	Right angled triangle	
1		Scalene triangle
5		Isosceles triangle
Don't exist	Don't exist	Equilateral triangle



Write the type of the following triangles with respect to their angles without using a protractor.



Write the type of the following triangles with respect to the length of their sides without using a ruler.



Write the type of the following triangles with respect to the length of their sides without using a ruler.









Construction of a triangle given its two sides and the angle enclosed between them.

Draw a triangle ABC, such that AB= 3 cm, $\hat{A} = 30^{\circ}$ and AC= 4 cm.



Worksheet (12)

Construction of a triangle given its two sides and angle enclosed between them.

Draw the triangle AEC such that AE= 6 cm, $\hat{E} = 68^{\circ}$ and EC= 5 cm.

- Start by drawing a segment AE using a ruler.
- Use protractor to measure the angle 68° by fixing the center of the protractor at E.
- Use the ruler to draw a line of 5 cm from E to C.
- Match the points A and C using ruler to complete the triangle.

Draw a triangle AEC, such that AE= 6 cm, $\hat{E} = 30^{\circ}$ and $\hat{A} = 70^{\circ}$.

Draw a segment AE of length 6 cm.



Put the center of the protractor at point E then specify the angle of measure 30° and draw a line from E to the right.

Move the protractor to point A then specify the angle A of measure 70° and draw a line from A to the left.



Write the length of the side and the measure of the angle drawn.

Worksheet (14)

Constructing a triangle given a side and two angles on it.

Draw a triangle DCH such that $\hat{H} = 45^{\circ}$, CH= 4 cm and $\hat{C} = 40^{\circ}$



Worksheet (15)

Exercise 1:

- 1) Draw the height from point A to the base BC
- 2) Draw the height from point B to the base AC
- 3) Draw the height from point C to the base AB



Exercise 2:

Draw the heights of the following triangle then deduce its type with respect to its angles.



Worksheet (16)

Let's remember the definition of the height and its rule:

- 1) is the perpendicular drawn from the head to the opposite side of the triangle (base) or its extension?
- 2) is the side of the triangle where the height makes right triangle with it.

Let's write the base and the heights of the following triangles:



Worksheet (17)



Exercise 1:

ABC is a right triangle at C.

- 1) Draw the heights of the triangle ABC.
- 2) How many heights are there in the triangle?
- 3) Where is the point of intersection of the height

Exercise 2:

Using a set-square and a ruler.

- 4) Draw a right triangle.
- 5) Draw the heights of the triangle.
- 6) Name the point of intersection of the three heights?

Worksheet (18)

- 1) Draw the height from vertex A to the base BC.
- 2) Extend the side CA from A, then draw the height from the vertex B to the base CA.
- 3) Extend the side BA from A, then draw the height from vertex C to the base BA.
- 4) Name the point of intersection of the three heights.



Worksheet (19)

- (1) Draw the height from the vertex B to the base OH.
- (2) Extend the side HB from B, then draw the height from the vertex O to the base HB.
- (3) Extend the side OB from B. then draw the height from the vertex H to the base OB.
- (4) Name the point of intersection of the three heights.







Worksheet (2)

Follow the example to complete:



One of the restaurants offers meals at a price of 50 L. for a meal, and 10 L.

as a home delivery service is added to the price of a meal.

Determine what you will pay in each of the following cases:

- 1) When you order one meal home \rightarrow you will pay L.
- 2) When you order three meals home \rightarrow you will pay L.

3) When you order four meals home. \rightarrow you will pay L. **Note:** Price = meal price × number of meals + delivery service

We symbolize the number of meals with the symbol a, and the total of what you pay with the symbol b.

4 Then the relationship between a and b is:

 $\dots = meal price \times \dots + delivery service.$

Note:

- ✤ The number of meals is a variable quantity and we symbolize it with the symbol a.
- The total of what you pay is a variable quantity and we symbolize it with the symbol b.
- ✤ The price of one meal is a constant quantity.
- ✤ The price of delivery service is a constant quantity.

Worksheet (4)

Use the model to represent the following algebraic expressions:

The model algebraic * x + 3..... expression algebraic x - 3* expression algebraic 2x..... expression 🔹 algebraic $x \div 4$ expression



Worksheet (6)

Complete:

- > The algebraic expression x + 4 consists of two terms, they are and
- \blacktriangleright The operation between them is
- \blacktriangleright It can also be represented using the words as follows:
 -
- We can calculate the numerical value of (x + 4) when x = 1: The model
 - The algebraic expression:
 By replacing x with the number
 The answer is

Write as an algebraic expression:

- 1) 8 less than a number.
- 2) Triple a number then add 5.
- 3) Half a number Plus 4.
- 4) One third of a number plus 7.

Worksheet (8)

Write as an algebraic expression:

- 1) Double the number **b** added 4 to it.
- 2) Triple of number **c** then add **10** to it.
- 3) 7 less than half the number *x*.
- 4) Twice of number a minus 15.

Worksheet (9)

Observe and complete:



The topic (19): The strategies of solving word problems about the mathematical

operations

Worksheet (1)

Syria is an exporting country of many items, including olive oil and spices. The value of olive oil exports in 2019 amounted to 92 million dollars, and spices 73 million dollars.

What is the value of exports of olive oil and spices?



Worksheet (2)

In winter, the weight of the arctic iceberg was estimated to be 60440550 kg, and in Summer, when the snow began to melt, it was estimated to be 4206604 kg.

How much weight of the iceberg did Summer heat melt?



The Postage Service offered a collection of colored stamps

and black and white stamps.

Where they sold (43 819 304 519) colored stamps

and (58 370 174 287) black and white stamps.

Calculate the total number of sold stamps.



Worksheet (4)

Two ships sailed from the Tripoli port in Lebanon,

Carrying a load of barrels of crude oil.

If you know that the tonnage of the first ship

is 42,804,500 barrels, and the tonnage of the

second ship is 42405,400 barrels.



How many barrels of oil do the two ships carry?

Worksheet (5)

Aleppo is a city in Syria, and it is known of soap industry.

If you know that the production of one of the soap factories was 4,376,158 pieces of soap during two years, and the production in the first year was 1224,014 pieces of soap.

Calculate the production in the second year?



Worksheet (6)

A factory for the production of white and colored paper sent a load of paper to one of the largest companies of paper of 722601350 bundles of colored and white paper.

If you know that the company received 120628425 bundles of white paper.

Calculate the amount of colored paper that did not reach to the company.



A sport team won $\frac{3}{5}$ matches in one season.

If you know that the number of matches that the team has played is 25, What is the number of matches that the team has won?



A school bought 25 computers, and the cost of one computer was 2,397,000 S.L.

What is the total cost of the 25 computers?



Worksheet (9)

Multiplication Problems

Try to solve these multiplication problems

The foot is about 30 cm.
 The width of the basketball court is 50 feet.
 Calculate this width in cm.

2. Sailfish can swim at a speed 30 meters per second. What is the distance it can cover in 15 seconds?

3. Half-liter = 500 ml. How many ml are in 2 liters and half ?

4. if the price of the scissors is 2.5 \$, what is the price of 4 scissors?

5. M and M's chocolate box contains 36 chocolate candies. How many sweets are in a bag of 5 packs of chocolate box ?

6. There are 150 words on each page of book "How to take care of Samanderek". The book contains 6 pages. How many words are there in the book?



1. a. Farida called the store to buy a box of chocolate of price $1250 \in$. If the box contains 5 pieces of chocolate, what is the price of each piece?

b. If a delivery fee of $750 \in$ is added to Farida order, what is the total amount that Farida should pay?

2. A box contains two bottles of water, has mass of 2.75 kg.When the box is empty, its masse is 0.25 kg.What is the masse of one bottle of water?

3. Yara fills 3 bottles from a jug containing of 3.75 liters of lemon juice, each bottle can be filled 0.5 liter of lemon juice.

How much juice is left after she filled the 3 bottles?
Worksheet (11)

A rectangular land is divided into two parts, on the first part of the land there is a house, and on the other part is a garden of rectangular shape.

The owner of the house decided to use $\frac{3}{5}$ of the garden for planting.

If he planted on the first day $\frac{1}{4}$ of the area that the owner wanted to plant, What is the fraction that represents the cultivated area?

Write in the form of a literal expression, as in the example.

1) Adding 2 to a number	<i>a</i> + 2
2) Subtract 1 from b	
3) The double of c	
4) Adding 1 to d	
5) Subtracting 3 from e	
6) The half of f	
7) The product of g and 4	
8) The product of h and 3	
9) A number divided by 3	
10) Adding 4 to j	
11) Adding 1 to the double of k	
12) Subtracting 2 from the double of i	
13) Adding 3 to the half of m	
14) Subtracting 1 from the half of n.	
15) Adding 4 to the product of 3 and O.	
16) Subtracting 5 from the product of p and 5	
17) Adding 7 to r.	
18) Adding 7	
19) subtracting 10 from t	
20) subtracting u from 10	
21) multiplying 2 and v	
22) multiply w and 2	
23) divide x by 5	
24) divide 5 by y	

Write the literal expression for each word problem:

1. In a barn, there are h horses. 6 of them were moved out. How many horses are left in the barn? h - 6

2. There are c cyclists in a bicycle race. $\frac{3}{4}$ of cyclists finish the race. How many cyclists failed to finish the race?

3. There are 56 people in the bus. t person got off in the next station, and 3 got on the bus.

How many people are on the bus now?

4. In a class of 56 students, there are girls. What is the percentage that represent the number of girls in the class?

5. In a class of c students, there are 16 boys. What is the percentage that represent the number of boys in the class?

6. There are b people in the bus.

7 peoples got off in the next station and 10 persons got on it.

How many people are on the bus now?

7. I cut a long piece of wood into pieces, each being 50 cm. only 20 cm of the original piece is left. Represent the length of the original piece.

8. I have a piece of chocolate, I wanted to share it equally among 5 friends. How much does each one of them get?

- 9. I have 5 boxes of pens. I gave 2 boxes of pens each of one contains t pens. How many pens do I have now?
- 10. There are d deer and p birds in the forest. How many legs are in total?

Worksheet (14)

Rayan has s \$.

Answer by ✓ or ★:

The case	The literal expression that represent the case	True ✓ or False ×
He won s \$	s + s	
He donated s \$ to charity	t – s	
His father gave him 2s \$	s + s	
He bought a shirt for 1 \$	s + 1	
Rayan shares s \$ equally with his 3 sisters	s ÷ 3	
He gives half of the amount of money to his sister	$s-\frac{s}{2}$	

Worksheet (15)

Choose the answer (true or false) in each of the following, then write down the letter in the upper corner before you follow the instructions to find the next card.

If you answer each question correctly, you will only use each rectangle once.

Note: Use the letter only once during the time given by the teacher.





Calculate the following expressions, using priority rule:

2) (5 + 4) x 3 = ____ x 3 = ____ 1) 3 + (4 x 5) = 3 + ____ = ___ 3) 7 x (5 - 2) = 7 x ____ = ___ 4) (9 - 6) x 8 = ____ x 8 = ____ 5) (20 + 4) + 8 = ____ + 8 = ____ 6) 17 - (35 + 5) = 17 - ____ = ____ 7) (7 x 3) - (2 x 4) = ____ - ___ = ____ 8) 14 - (3 x 5) = ____ - ___ = ____ 9) (40 + 5) + (3 x 9) = ____ + ___ = ___ 10) (7 - 4) x 12 = ____ x ___ =___ 11) 2.5 - (0.7 x 2) = ____ = ___ 12) (4.5 x 3) - 12 = ____ = ___ = ___ 13) $6 - (1.7 \times 3) =$ ___ = ___ 14) $(4.2 \div 6) \div 0.9 =$ __ \pm ___ = ___ 15) 200 - (14.5 x 6) = ____ - ___ = ___16) 78 + (3.75 x 8) = ___ x ___ = ___ Calculate the following expressions, then arrange the result in increasing 85 - (17 x 3) 200 ÷ (3.7 + 6.3) $(4.5 \times 3) + (30 \div 4)$ The smallest The greatest

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Knowing that: A = 3 and B = 2Calculate the numerical value of the following literal expressions:

 $A \times 3 - (B + 5) / 7$

Worksheet (18)

- \checkmark Player 1 rolls the three dices in front of player 2;
- ✓ Then player 1 uses the numbers of the dice, and the operations + ; − ; × and ÷ to make his answer ;
- ✓ Player 1 tells his answer to player 2;



 ✓ Player 2 has to perform the correct operations that player 1 Uses them to find his number.
The player 2 writes his calculations on a paper;

 \checkmark If player 2 can't find the result as player 1, it is allowed to him to challenge player 1 to prove how to get the result;

 \checkmark Then both players compare their answers and the use the calculator to check the answer;

- \checkmark How to register the points?
- If player 2 gets the same result of player 1 and his calculations are correct So, player 2 get 10 points;
- . If player 2 gets a different result than player 1 then player 2 get 0 point;
- . If player 1 gets the wrong answer, then the player 2 get 10 points;
- If player 2 challenges player 1 and player 1 writes the correct calculations the player 1 gets 5 points and player 2 gets 0 points.



Answer by true for the correct relation that represent the given model; then solve this problem using priority rule:



Worksheet (20)

Souad has 20 candies, then her grand-mother gave her 10 candies.
On the way, Souad saw her friend Salma, so she gives6 candies to her friend Salma.

How many of candies are left with Souad?

2. The owner of a bookstore ordered a purchase list and he received the following items:

9 packages, each one of them of 4 red pens;

12 packages, each one of them of 10 blue pens;

5 boxes, each one of them of 4 copybooks.

The items will be distributed equally on 2 shelves in the library What is the number of pens and copybooks on each shelve?





The topic (20): The strategies of solving word problems about measurements.

Diagnostic Worksheet

The distance between two cities (A, B) is 320 kilometers. The train started its trip from city (A) to city (B), if it passed a distance of 105 kilometers approximately in one hour.

- 1- What is the remaining distance for the train to reach city B?
- 2- Estimate the total time of this trip.

I understand:
The givens:
The required question:
I plan.
T colore
I SOIVE:
I check.



¹ https://math-center.org/ar-BH/worksheet/ffc743f3/%D9%82%D8%B1%D8%A7%D8%A1%D8%A9-%D8%A7%D9%84%D9%82%D9%8A%D8%A7%D8%B3%D8%A7%D8%AA-5-f/



¹ https://math-center.org/ar-BH/worksheet/94404516/%D9%82%D8%B1%D8%A7%D8%A1%D8%A9-%D8%A7%D9%82%D9%82%D9%8A%D8%A7%D8%B3%D8%A7%D8%AA-1h/

Worksheet (3)

From	То	The distance (Km)	The distance to the	
			nearest 100 Km	
Washington	Los Angeles	3693	3700	
Los Angeles	Tokyo	8807		
Tokyo	Pompeii	6741		
Pompeii	Athens	5173		
Athens	Paris	2096		
Paris	London	343		
London	Washington	5899		
What is the total dis	stance between Tok	yo, Los Angeles and	Washington?	
I understand:				
The givens:				
The required question	:			
I plan:				
I solve:				
I check:				

Worksheet (4)

	The river	The length (Km)	The length to the nearest 1000 Km
	Amazon River	6400	
	Mississippi River	6275	
	Nile River	6650	
	Ob River	5410	
	Yangtze River	6300	
	Yellow River	5464	
	Yenisei River	5539	
	Find the length of each river to the	he nearest 1000 Kilometers?	
	l understand.		
1	The givens:		
1	The required question:		
•	I plan.		
	-		
	I solve:		
	I check.		

Worksheet (5)

	The animal	Mean of mass (ton)	
	African jungle elephant	4.9	
	Asian elephant	4.15	
	African forests elephant	2.8	
	White rhino	2.1	
	Indian rhino	1.9	
	hippopotamus	1.8	
Find the mass of	f three Asian elephants?		
Find the mass of	f both an African jungle elephan	t and a hippopotamus to the nea	rest one?
I understand.			
The givens:			
The required q	uestion:		
I plan.			
•••••			
I solve:			
••••••			
I check.			

whale	Mean of mass (Kg)	Mass order	Mean of length (m)	Length order
Blue whale	110000	1	25.5	1
Bowhead whale	54500		15	
Fin whale	57000			
Gray whale			13.5	
Humpback whale	29000		13.5	
Real whale	58000		15.25	
Sei whale	22500			
Sperm whale	31250		13.25	
Arrange the animals according to their lengths in an increasing order. Arrange the animals according to their masses in a decreasing order.				
I understand.				
The givens:				
The required question	1:			
I plan.				
I solve:				
I check.				

¹ https://math-center.org/ar-BH/worksheet/3a031a7e/

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Worksheet (7)

A rectangular farm of dimensions (50 m, 40 m), if we want to surround it by a fence. Knowing that the cost of 1 meter of the fence is 150 L.L.

What does the fence cost?

(Give your answer to the nearest 1000 L.L).

I understand.
The givens:
The required question:
I plan.
I solve:
I check.

Worksheet (8)

Two adjacent lands, each one of them in the form of a square, each side being 60 meters. It is intended to build a fence around the two lands. The cost of one meter is 228 L.L.

Estimate the cost of the fence to the nearest 1000 L.L.

I understand.
The givens:
The required question:
I plan.
I solve:
I check.

Worksheet (9)

A house of rectangular form with two dimensions (14 m, 10 m).

If you know that the cost of one-meter square in the house is 6250 L.L.

Calculate the cost of the house?

I understand.
The givens:
The required question:
I plan.
I solve:
I check.

Worksheet (10)

A football stadium of rectangular form with two dimensions (120 m, 80 m).

The playing field is intended to be covered with a suitable cover.

If you know that the cost of one- meter square is 300 L.L.

Calculate the cost of the whole stadium?

I understand.
The givens:
The required question:
I plan.
I solve:
I check.

Worksheet (11)

A medicine bottle of volume 1.5 liters, it is intended to distribute its liquid in small bottles of volume 40 ml each.

How many bottles will be used?

I understand.
The givens:
The required question:
I plan:
I solve:
I check:

Worksheet (12)

Use the following words to formulate some word problems, then solve them using the four steps.

(Area, Perimeter, 15 meters, 25 meters, 30 liters of water, The cost of the meter square is 150 L.L, Small bottles of water of volume 750 cm^3 each,)

I understand.
The givens:
The required question:
I plan.
I solve.
I check.

Lesson (21) Representation of Data

Worksheet (1)

In the following table there are the weights of a group of students, represent these weights on a dot plot.

The weights of the students in kilogram						
42	42	45	41			
39	45	41	43			
39	42	45	45			

- What is the most common body weight among the students?
- What is the least common body weight among the students?

Worksheet (2)

The following table represents the data for the favorite color for the group of children.

Represent this data by using bar chart

Favorite color	Number	
Blue	9	
Red	6	
Green	8	
Yellow	3	

- What is the most liked color for the children?
- What is the most liked color for the children?

.

Worksheet (3)

The following table shows the number of studied hours for Abdullah and Omar in some days of a week:

Day Name	Saturday	Sunday	Monday
Abdullah	3	4	6
Omar	4	5	4

Represent this data by using double Bar chart.

Worksheet (4)

In the following there is a data for the favorite hobbies to a group of students,

Represent them by using a dot plot.

Data of the hobbies of the students in a class									
Football	Walking	Football	Reading	Walking					
Walking	Reading	Walking	Football	Reading					
Reading	Football	Walking	Reading	Reading					
Football	Reading	Football	Reading	Football					

ł	Represent the following data by using bar graph:									
	Types of sandwiches	vegetables	cheese	jam	meat					
	Numbers	12	16	6	14					

Worksheet (6)

The following table shows the number of studied hours for Souad and Mohammad for three weeks respectively, represent this data by using double bar chart.

Week	First	Second	Third
Souad	12	16	10
Zaid	16	12	8

Worksheet (7)

Month	October	November	December
ubject			
Science	40	20	45
Math	25	35	30

Worksheet (8)

F	Represent the following data by using line graph:									
	Day	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday			
	Height	10	15	25	30	35	40			
	(mm)									

Worksheet (9)

The following table represents the amount saved for Hady and Samira during four months of the year.

Represent this data by using double vertical bar graph.

Month	January	February	March	April
Hadi	20	50	15	30
Samira	10	35	25	20

Worksheet (10)

The following table represents the production of an apple farm over several years, represent this data with line graph:

Year	2013	2014	2015	2016	2017	2018	2019
Production	2	4	3	2	4	5	3
in tons							



Worksheet (12)

Represent the following decimal numbers by using diagram						
1) 0.2	2) 0.24	3) 0.15				
5) 0.008	5) 0.7	6) 0.56				

Worksheet (13)



Worksheet (14)

Represent the following data by using diagram						
1) 0,7	2) 0.64	3) 0.85				
4) 0.035	5) 0.6	6) 0.74				

Worksheet (15)

Activity	Music	Sport	Drawing	Theater	Scouts
Number	25	30	45	25	40

The following table shows the types of the activities in a school, the number of the students in each activity.

Represent this data by using vertical bar graph then answer the following questions:

-What is the most liked activity for the students?

-What is the least liked activity for the students?
Worksheet (16)

The following table shows the type of pies that a group of children prefer, represent this data by using dot plots, then determine the type of the pies which is the most preferred by the children

Favorite type of pies					
Cheese	Eggs	Meats	Cheese		
Meats	Cheese	Cheese	Cheese		
Meats	Eggs	Eggs	Eggs		
Eggs	Cheese	Meats	Cheese		

Worksheet (17)

Represent the diagram	following fraction	ons by using
1) 0.67	2) $\frac{6}{8}$	3) $\frac{8}{12}$
4) $\frac{6}{8}$	5) 0.006	6) 0.4

The topic 22: Some metrics about the data and probability

Worksheet (1)

The dice is rolled for one time, noting the number shown:

- The probability that the number 2 will appear = $\frac{\cdots}{2}$
- The probability that the number will appear is odd = $\frac{\cdots}{2}$
- The probability that the number will appear is even = $\frac{\dots}{\dots}$
- The probability that the number will appear is greater than $6 = \frac{\dots}{\dots}$
- The probability that the number will appear is less than $7 = \frac{\dots}{\dots}$

In a turntable game, the pointer is rotated and stopped in one of the areas:

Complete:

- The number of red parts = \dots
- The number of blue parts = \dots
- The number of white parts = \dots
- The total number of parts in the turntable = \dots
- The probability that the pointer will stop on the red area = $\frac{\dots}{\dots}$
- The probability that the pointer will stop at the blue area = $\frac{\dots}{\dots}$
- The probability that the pointer will stop at the white area = $\frac{\dots}{\dots}$
- The probability that the pointer will stop at the green area = \dots





Worksheet (3)

The cards are laid face down on a table, then one card is drawn randomly.

Complete:

 $\frac{\cdots}{\cdots}$



- The probability that the number on the drawn card is even = $\frac{\dots}{\dots}$
- The probability that the number on the drawn card is divisible by $3 = \frac{1}{100}$
- The probability that the number on the drawn card is divisible by $5 = \frac{1}{100}$
- The probability that the number on the drawn card is divisible by 2 and 3

Worksheet (4)

The dice is rolled once, noting the number shown. Find the probability of the following:

- The probability that the number will appear is odd = $\frac{\dots}{\dots}$
- The probability that the number will appear is less than $3 = \frac{\dots}{\dots}$
- The probability that the number will appear is =7 ...
- The probability that the number will appear is less than $7 = \frac{\dots}{\dots}$





Worksheet (8)

The following numbers represent the number of studied hours of a student per a week:

2.25	1.5	2	1.75	3.75	2.5	3.5
------	-----	---	------	------	-----	-----

Find the range of these numbers.

Worksheet (9)

The following numbers represent the distance from home to school, in kilometers:

2.25 1.5 2 1.75 2.75 2.5 0.5

Find the range of these numbers.



Worksheet (12)

The following numbers represent the number of studied hours of a student, per a week:

2.25	1.5	2	1.75	3.75	2.5	3.5
------	-----	---	------	------	-----	-----

Find the average (mean) of these numbers.