Math 2 Homework 24

_____TIME FIRST PAGE_____

1

7 × 6 =	2 × 6 =	1 × 5 =
3 × 7 =	4 × 6 =	7 × 5 =
7 × 5 =	7 × 6 =	3 × 5 =
4 × 7 =	5 × 6 =	5 × 5 =
9 × 7 =	6 × 3 =	2 × 5 =
7 × 2 =	6 × 5 =	4 × 5 =
7 × 1 =	0 × 6 =	6 × 5 =

2

Solve the following equations:

x + 40 = 50	95 – ***y*** = 35	***z*** – 39 = 41	***y*** x 5 = 40
x = _____	***y*** = _____	***z*** = _____	***y*** = _____
x = _____	***y*** = _____	***z*** = _____	***y*** = _____
Check:_____	Check: _____	Check: _____	Check: _____

3

Calculate:

	5	9				3	2				9	8				1	2	4				2	1	9				4	1	3
+		7			-		5			+	2	3			-		2	6			+		9	4			-	1	2	5

Report the time you spent: _____ minutes

_____

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4

Replace the stars by digits to obtain a correct equality:

a) *** – ** = 1 b) *** – ** = 2

How many solutions can you find for each problem?

5

How much time has elapsed between the first and the second times?

First time:	Second time:	Elapsed time:
11 am	1 pm	_____
5:20 pm	6:30 pm	_____
4:40 pm	8:10 pm	_____
3:22 pm	6:15 pm	_____

6

On a business trip in Upstate New York, Mr. Floyd stopped several times to buy gas. He started with a full tank. He filled 12 gallons when he filled up the first time. At his next gas stop, he filled 10 gallons. He stopped at the gas station next to his home and he added 8 gallons to make the tank full again. How many gallons of gas did his car use on the trip?

_____

7

Calculate:

5. $3.28 + $5.27

6. $6.98 - $2.49

7. $7.03 - $6.08

8. $11.00 - $5.39

8

Expand the following by removing parentheses:

6(z + 3) =_____

4(6 – y) =_____

5(a + 8) =_____

9(3 – q) =_____

4(3z + 6) =_____

5(2 – 2y) =_____

7(3a + 3) =_____

7(6 – 6q) =_____

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9

a) DO YOU REMEMBER THE PROPERTIES OF ADDITION?
Write what each expression is equal to:

Commutative property: $a \times b =$ _____

Associative Property: $(a + b) + c =$ _____

b) DO YOU REMEMBER THE PROPERTIES OF MULTIPLICATION?

Commutative property: $a \times b =$ _____

Associative Property: $(a \times b) \times c =$ _____

Distributive property: $a \times (b + c) =$ _____

$a \times (b - c) =$ _____

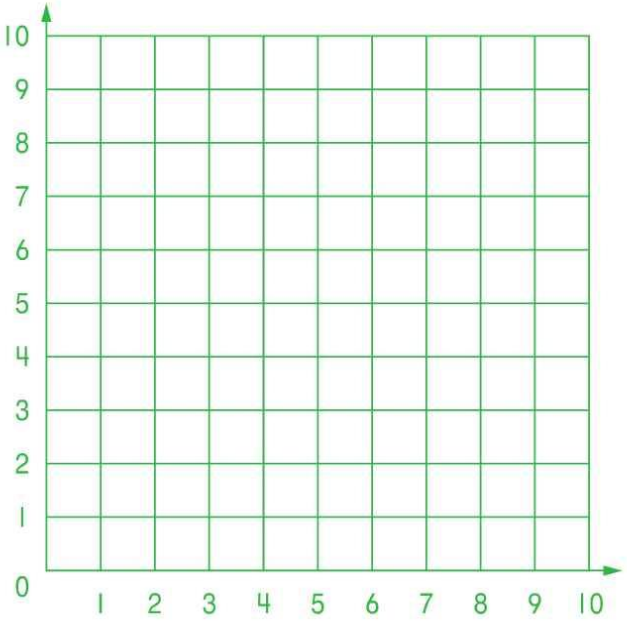
10

Ben is jumping from one red dot to the next one (mark his stops with RED). Dina is jumping from one blue point to the next one. Mark her stops with BLUE.

DINA's path: A (1,5) → B (7,5) → C (4,8) → D (10,10)

BEN's path: K (1,10) →L (3,7) → M (6,7) → N (10, 2)

Who have made the longest jump? _____. From what point to what point? _____



HW 24

11 Calculate:

$49 \times 7 =$ $67 \times 4 =$ $83 \times 8 =$

12

Ariadna likes to bake. She has 3 aluminum muffin pans, each of which holds 8 muffins, and 2 cast iron pans, which also hold 8 muffins each. She also has two stainless steel muffin pans, which hold 12 muffins each. If Ariadna fills all her muffins' pans at once, how many muffins would she bake?

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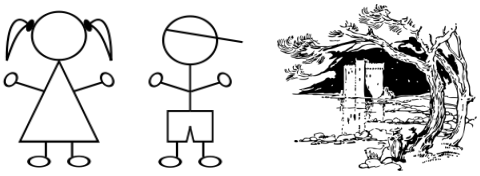
13 A hotel has 5 types of rooms depending on the number of beds. The rooms shown on the map are labeled accordingly. Figure out in which rooms Lisa and Tim live?

You know that:

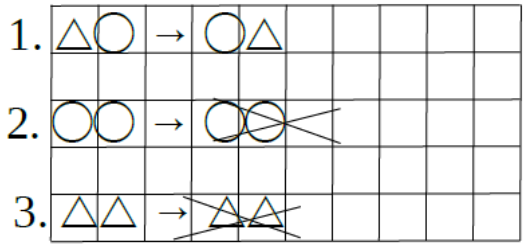
- Neither of their rooms is located next the number 3: not to the left, not to the right, not above, not below.
- Both of their rooms are located either to the right or to the left of both the numbers 4 and 1.
- Both of their rooms are located nearby (to the right, or left, or above, or below) of both the numbers 1 and 5.
- Lisa's room is to the left of Tim's room.

3	2	1	1	4	3	3	5
5	3	4	1	4	3	3	4
1	2	5	4	1	4	1	3
3	2	1	4	1	3	5	4
5	2	2	1	4	3	3	2
4	5	1	4	2	4	5	5
4	2	1	2	4	3	1	3
4	4	1	5	1	3	1	3

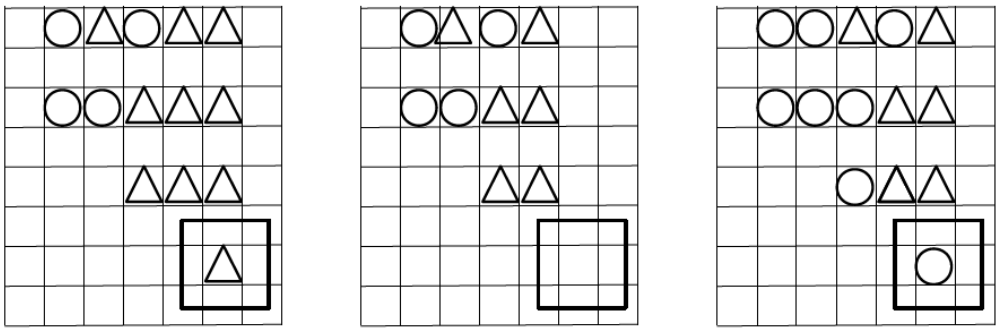


14

Once upon a time the people of a kingdom only wrote using squares and triangles. They were communicating to each other using long words that consisted of squares and triangles. The king became angry and decreed the 3 rules to simplify the writing:



First, rule 1 has to be used as many times as possible, then the same applies to rules 2 and 3. Inspect if the following words were transformed correctly:



Transform the following words using the three royal rules: