Homework 14

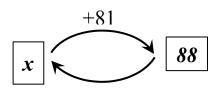**1.** The following list represents the steps needed in order to make a cup of tea. Put the list in the right order:

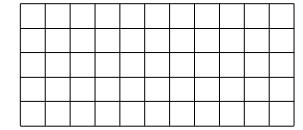– Boil the water   _____

– Put tea bag in cup   _____

– Add milk   _____

– Pour boiling water in cup_____

– Fill kettle   _____

– Stir   _____

– Ready   _____

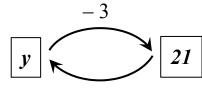– Add sugar   _____

– Fetch cup   _____

2. Joe has three friends who have five toy cars each, and then two friends who only have two cars each. How many cars do Joe's friends have all together?
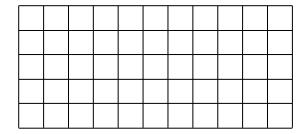
_____

3. What is the reverse operation in each diagram? Write an equation for each and solve them.
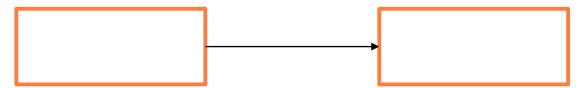
$x \xrightarrow{+81} 88$

$y \xrightarrow{-3} 21$

4. Make up your own operation. Say what you operated upon (**object of operation**), what exactly the operation was, and what the **result of the operation** was.

```
┌─────────────────┐                    ┌─────────────────┐
│                 │ ─────────────────▶ │                 │
│                 │                    │                 │
└─────────────────┘                    └─────────────────┘
```

Reverse the operation you created. What is the object of operation and result of operation now?

```
┌─────────────────┐                    ┌─────────────────┐
│                 │ ◀───────────────── │                 │
│                 │                    │                 │
└─────────────────┘                    └─────────────────┘
```

5. Draw a straight line through every pair of points.

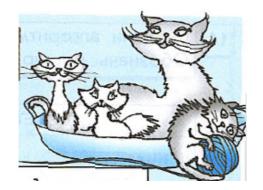How many lines can you draw? _____   How many lines can you draw? _____

6. Rewrite each problem using multiplication instead of addition where possible:

For example: **2 + 2 + 2 + 2 = 2 × 4**

12 + 12 + 12 + 12 =_____   28 + 82 =_____

24 + 24 + 24 = _____   7 + 7 + 7 + 7 + 7 =_____

13 + 27 + 27 =_____   9 + 9 + 9 =_____

7. Circle the numbers of the questions, which can be answered using YES, or   NO

1. *Who is playing with the yarn ball?*
2. *Which breed is the cat?*
3. *Is the cat black?*
4. *Which color is the yarn ball?*
5. *Where does the cat lay?*
6. *Does the cat have kittens?*
7. *How many kittens are on the drawing?*
8. *Whose kittens are these?*
9. *Do kittens fly?*
10. *Is Bob the robot a human?*
11. *Who has a tail?*
12. *Do cats have beaks?*
13. *Are all kittens in the basket?*

8.

a) Below plot a rectangle with a length of 6 cm and width of 3 cm less than its length.
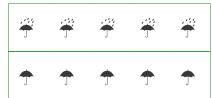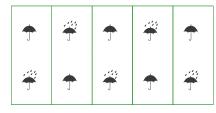
Figure out the perimeter of rectangle? P=_____

b) Plot another rectangle with a width of 2 cm and a length that is 2 cm greater than its width.

Figure out the perimeter of rectangle? P=_____

9.

Is the number of umbrellas the same in both tables?

$$5 \times 2 = \underline{\quad}$$

$$2 \times 5 = \underline{\quad}$$

10. Rewrite each problem using addition instead of multiplication. The first one is done for you.

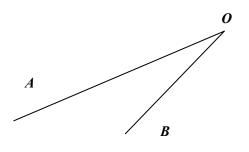$5 \times 3 = \underline{5 + 5 + 5}$ $a \times 4 = \underline{\qquad\qquad}$ $b \times 2 = \underline{\qquad\qquad}$

$2 \times 2 = \underline{\qquad\qquad}$ $n \times 4 = \underline{\qquad\qquad}$ $p \times 3 = \underline{\qquad\qquad}$
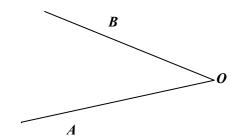
11.

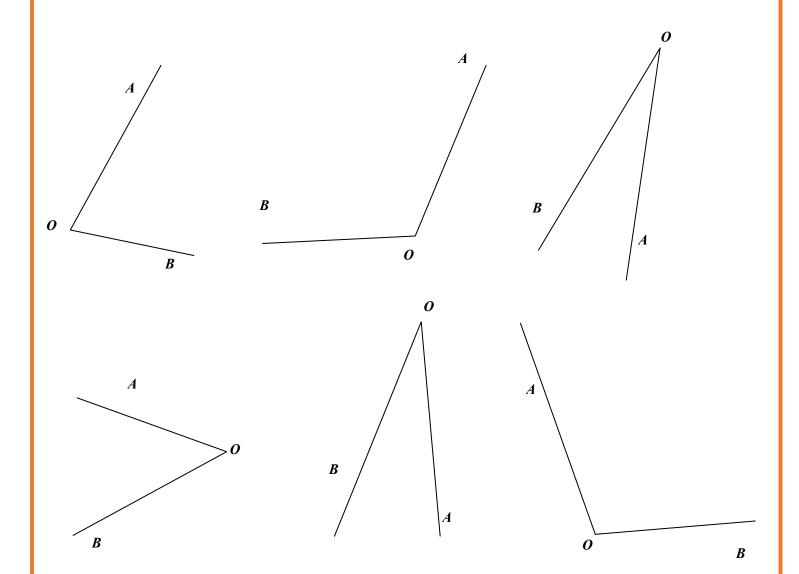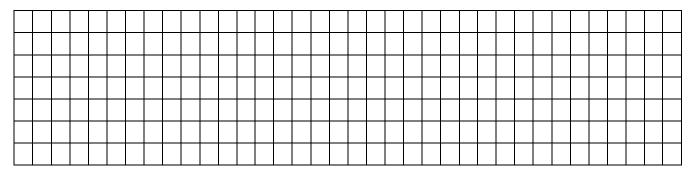a) Use a ruler to plot ray **OK** so that ray **OB** would be: inside the angle ∠**AOK**

b) Use a ruler to plot ray **OK** so that ray **OB** would be: outside the angle ∠**AOK**
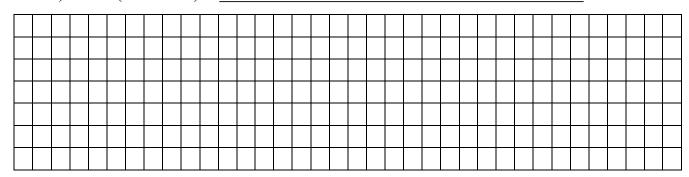
12.

1) Number the order of operations and calculate (use the grid below):

a) $253 - (153 + 290) =$ _____

b) $925 - (105 - 80) =$ _____

c) $450 - (250 + 125) =$ _____

2) Now open the parentheses first and then calculate:

a) $253 - (153 + 290) =$ _____

b) $925 - (105 - 80) =$ _____

c) $450 - (250 + 125) =$ _____

Did you get the same answers in 1 and 2? _____

6