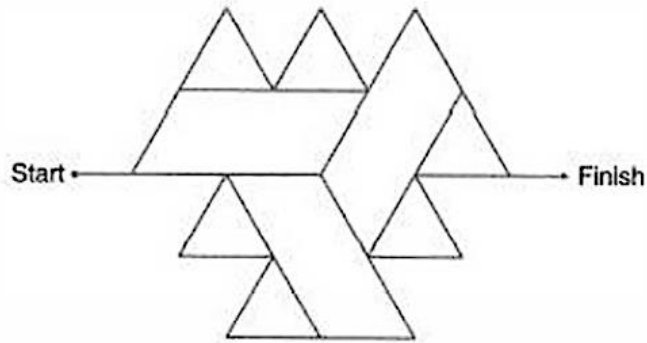


## Math 3 Homework 10

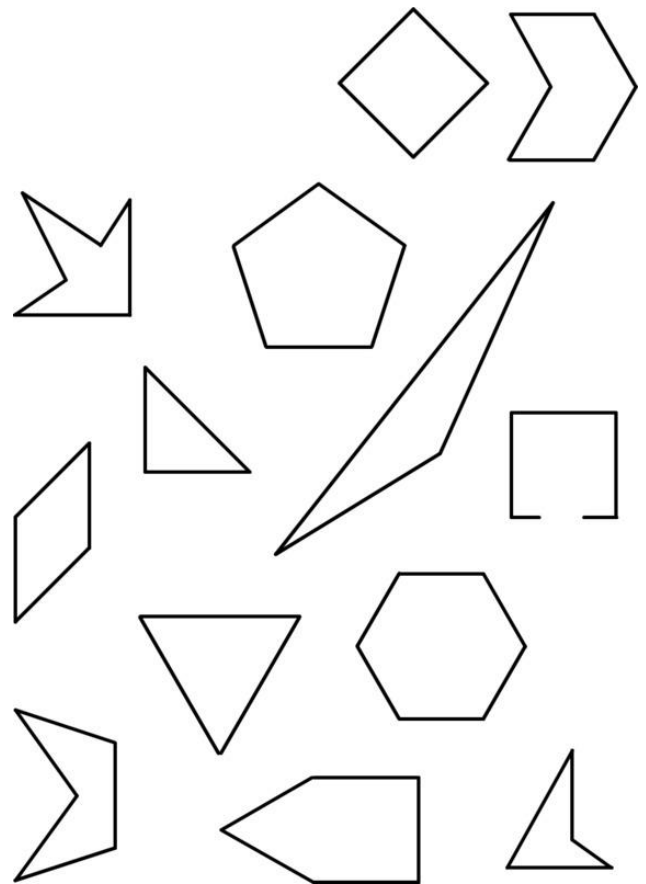
1

Complete each angle maze below by tracing a path from start to finish that has only acute angles. Be careful to avoid right angles in the next mazes:



2

- Color the inside of all the triangles blue.
- Color the inside of all the quadrilaterals red.
- Color the inside of all the pentagons orange.
- Color the inside of all the hexagons green.
- Circle all the shapes that have sides that are equal.



- 3**
- a) Draw at least two examples of each of the quadrilaterals defined below (use a ruler!)
- **Parallelogram:** A quadrilateral with 2 pairs of parallel sides.
  - **Rectangle:** A parallelogram with 4 right angles.
  - **Rhombus:** A parallelogram with 4 sides with equal length.

b) I am a shape that is a parallelogram, a rectangle, and at the same time a rhombus. What shape am I? Draw a sketch of what I look like. Use the vocabulary words and their definitions given in part (a) to explain what shape I am.

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- 4**
- Multiplication word problems:
- a) James has made 10 origami cranes. Tom, Mary and Nick have each made 2 origami cranes less than James. How many origami cranes all four children made together?

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b) Kathy had a piece of the ribbon and she cut 9 meters from it. The remaining piece of the ribbon is 5 times as long as the piece that was cut off. How long is the remaining piece? \_\_\_\_\_  
 How long was the original ribbon? \_\_\_\_\_

- 5**
- Solve for  $x$  and check your answers:
- |                     |                    |
|---------------------|--------------------|
| $x + 23 = 100 - 62$ | $85 - x = 42 + 45$ |
| _____               | _____              |
| _____               | _____              |
| _____               | _____              |
| _____               | _____              |
| _____               | _____              |
| _____               | _____              |

6

Solve for  $x$ :

$$(630 - x) + 210 = 500$$

$$(x + 190) - 370 = 330$$

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7

Decrypt the sentence:  $AA + AA = BBC$ . The same letters mean identical digits; the different letters mean different digits.

8

Draw a four-sided polygon that has right angles at the 2 bottom corners, an angle less than  $90^\circ$  at the upper left corner, and an angle greater than  $90^\circ$  in the upper right corner.

9

Compare using  $<$ ,  $>$  or  $=$ :

$$810 \text{ cm} \text{ \_\_\_\_ } 8 \text{ m}$$

$$7 \text{ m} \text{ \_\_\_\_\_\_ } 75 \text{ cm}$$

$$1 \text{ m} \text{ \_\_\_\_\_\_ } 100 \text{ mm}$$

$$6 \text{ m } 57 \text{ cm} \text{ \_\_\_\_\_\_ } 657 \text{ cm}$$

$$360 \text{ cm} \text{ \_\_\_\_\_\_ } 3 \text{ m } 60 \text{ mm}$$

$$365 \text{ mm} \text{ \_\_\_\_\_\_ } 36 \text{ m } 5 \text{ mm}$$

10

Compare:

$$x \text{ \_\_\_\_\_\_ } x + 3$$

$$x + 3 \text{ \_\_\_\_\_\_ } x + (3 + b)$$

$$x + 3 \text{ \_\_\_\_\_\_ } x + (3 - b)$$

$$x - 3 \text{ \_\_\_\_\_\_ } x - 3 + 1$$

$$x - 3 \text{ \_\_\_\_\_\_ } x - (3 + 1)$$

$$x - 3 \text{ \_\_\_\_\_\_ } x - (3 - 1)$$

11

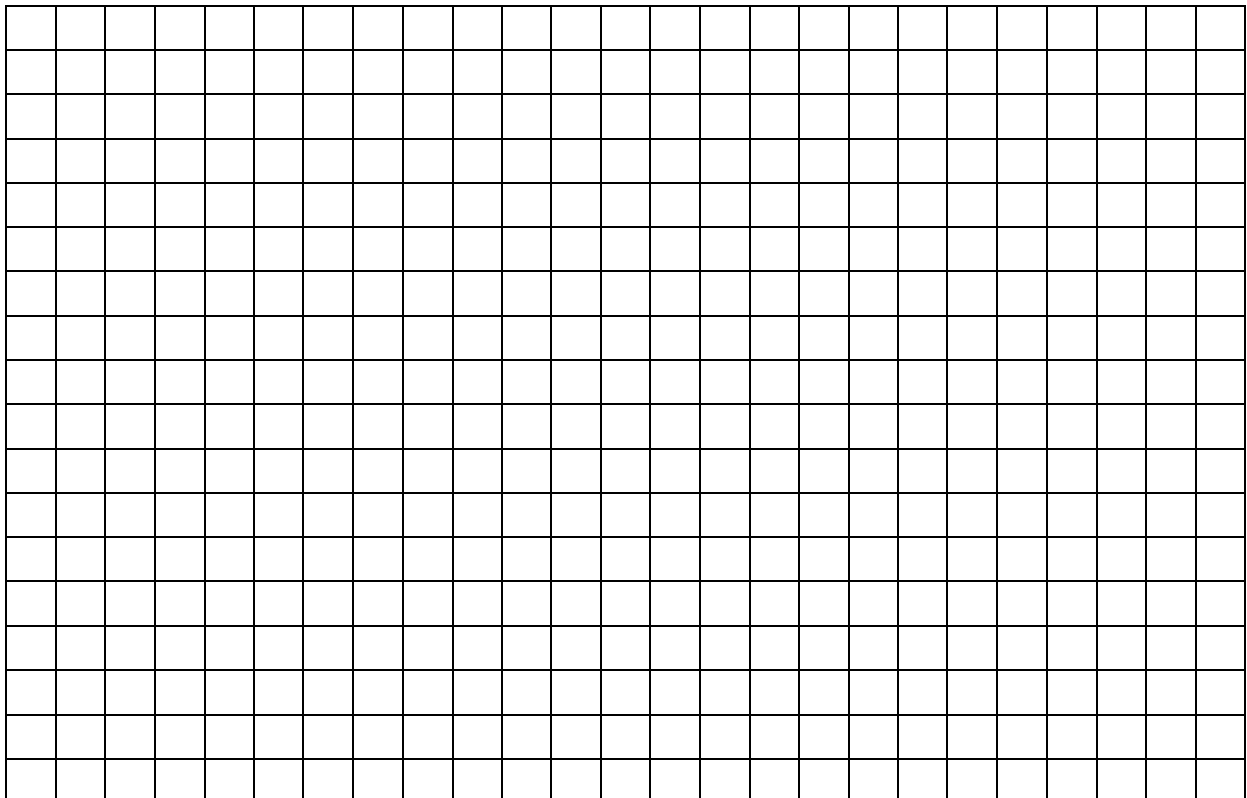
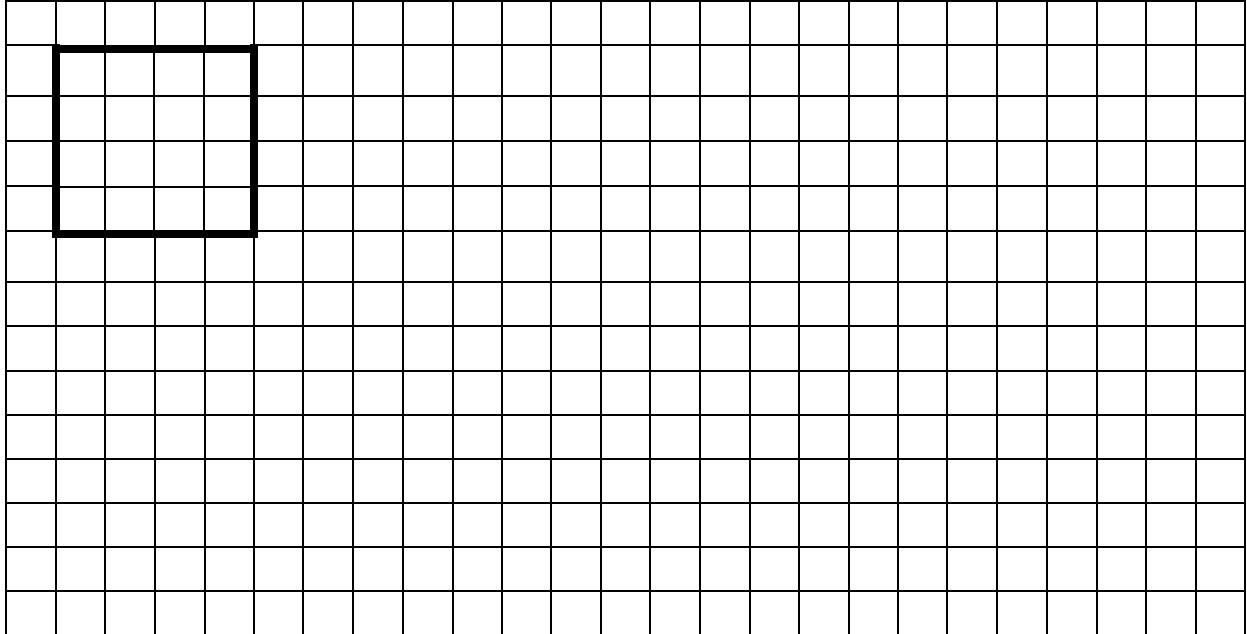
Choose the suitable units:

- a) The length of the mobile phone is about 15 \_\_\_\_\_
- b) Dad's height is about 180 \_\_\_\_\_
- c) The length of the soccer field is about 100 \_\_\_\_\_
- d) The capacity of the cup is about 200 \_\_\_\_\_
- e) The distance between your place and the school building is about 2 \_\_\_\_\_
- f) The volume of the aquarium is about 25 \_\_\_\_\_

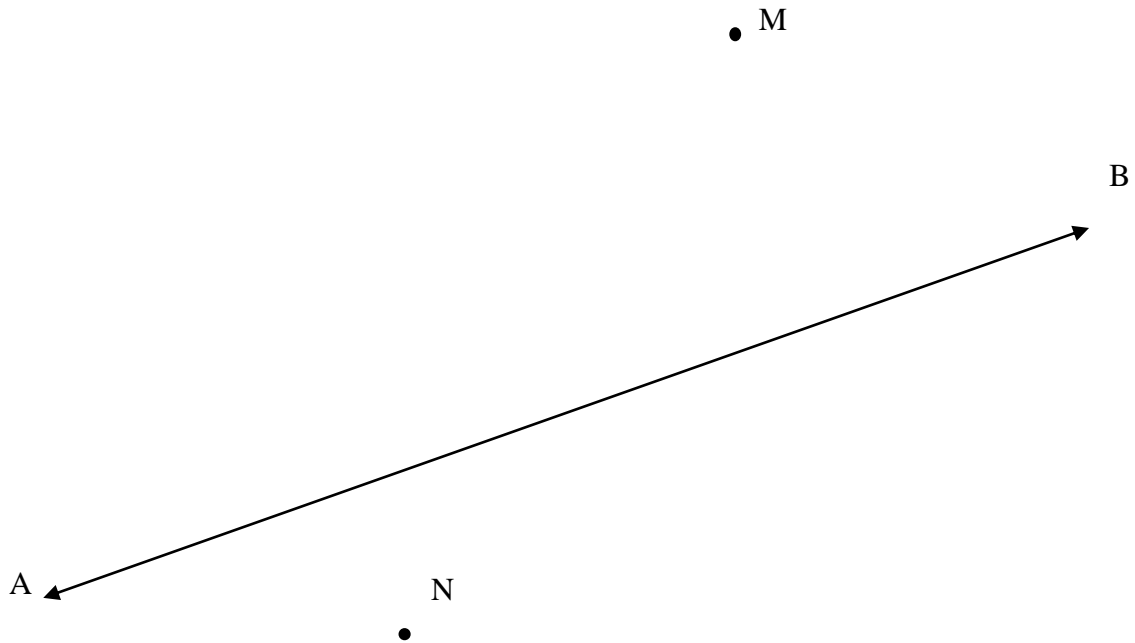
12

Perimeter of a square below is 16 cm. Using 4 such squares form new shapes so that every two squares might have a common side.

Draw different shapes with  $P_1 = 32$  cm and  $P_2 = 40$  cm. How many different shapes with perimeter equal 40 cm can you draw?



- 13** Draw two more parallel lines which are parallel to the line AB and that passes through points M & N. Use the protractor and the ruler and follow the technic we discussed in the classwork.



- 14** Please complete the multiplication exercise.

- 1) Put the timer on for three minutes and solve as many as you can!
- 2) Take a color pencil or pen and complete the rest.