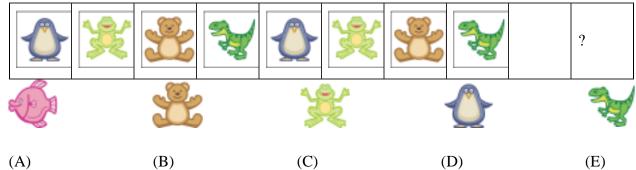


## Math 2 Homework 20

Time this page\_\_\_\_\_



Luke repeats the same four stickers on a strip. Which is the tenth sticker put by Luke?



- A dragon has 3 heads. Every time a hero cuts off 1 head, 3 new heads emerge. The hero cuts 1 head off and then he cuts 1 off head again. How many heads does the dragon have now?
  - (A) 4

1

3

4

- (B) 5
- (C) 6
- (D) 7
- (E) 8
- Winnie the Pooh bought 4 apple pies and Eeyore bought 6 cheesecakes. They paid the same and together they paid \$24. How much does 1 cheesecake cost?
  - (A) 2
- (B) 4
- (C) 6
- (D) 10
- E) 12

Open up parenthesis:

$$(56 + s) + (d + 15) =$$

$$k - (b + m) =$$

$$(n+4)-(a+b+c)=$$

$$(d+f)-(s-w)=$$

$$a - (45 - b) =$$

$$(170 - e) - (80 - a) =$$

There are N pencils in the red box and M pencils in the white box. Masha took a pencils from the red box. Monty took b pencils from the white box. Explain the meaning of the following expressions.

Calculate:

$$15\times100-15\times10=$$

$$200 \times 2 - 200 \times 0 =$$

e) 
$$50 \times 5 =$$

$$25 \times 20 - 25 \times 10 =$$

$$40 \times 5 + 40 \times 10 =$$

Report the time you spent: \_\_\_\_\_ minutes



Find the area of the rectangles. Write your answer below, don't forget the units of measure!  $\mathbf{a} = 3 \text{ m}$   $\mathbf{a} = 7 \text{ cm}$ 

$$A = ? dm^2 \mid b = 6dm \mid A = ? m^2 \mid b = 4m$$

$$A = ? cm^2$$

$$b = 6cm$$

Fill in missing numbers:

$$\_$$
 × 7 = 49

$$-$$
 × 6 = 54

$$\_$$
 × 8 = 16

$$\_$$
 × 2 = 20

$$\underline{\phantom{a}} \times 7 = 63$$
  $\underline{\phantom{a}} \times 5 = 45$   $\underline{\phantom{a}} \times 8 = 40$ 

$$-- \times 5 = 45$$

$$_{--} \times 8 = 40$$

$$\_$$
 × 8 = 24

$$4 \times _{--} = 16$$

$$6 \times _{--} = 36$$

$$4 \times = 16$$
  $6 \times = 36$   $10 \times = 60$ 

8

What is the area of the shaded part? Use the given scale (the area of one small square is 1dm<sup>2</sup> or 100 cm<sup>2</sup>).

Color the rectangle with the area 10 dm<sup>2</sup> on the grid.

Complete the equalities on the left.

$$1 \text{ m} = 10 \text{ cm} = 100 \text{ cm}$$

$$1 \text{ m}^2 = 100 \text{ dm}^2$$

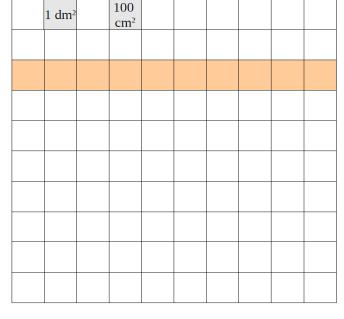
$$2 \text{ m}^2 = \underline{\hspace{1cm}} \text{dm}^2$$

$$300 \text{ dm}^2 = \underline{\qquad} \text{m}^2$$

$$500 \text{ dm}^2 = \underline{\qquad} \text{m}^2$$

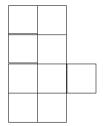
$$7 \text{ m}^2 = \text{cm}^2$$

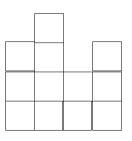
$$900 \text{ dm}^2 = \underline{\hspace{1cm}} \text{m}^2$$

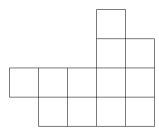


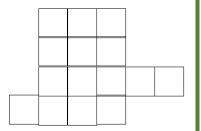
9

Split the shapes below into 3 identical shapes. Color each part by a different color.









## HW 20

10

## Translational symmetry. Area.

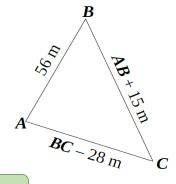
a) Find the perimeter and area of the rectangle with the sides 6 cm and 8 cm. Specify the correct units.

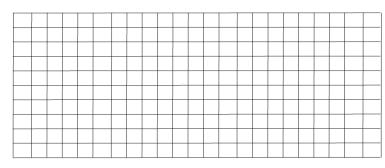
P = \_\_\_\_\_

- A = \_\_\_\_\_
- **b**) Find the perimeter and area of the rectangle with the sides 4 cm and 7 cm.

P =

- A = \_\_\_\_\_
- c) One side of the rectangle is 6 cm. Its area is 54 cm<sup>2</sup>. What is the other side of the rectangle?
- **d)** One side of a rectangle is 6 cm. Its area is 42 cm<sup>2</sup>. What is the other side of the rectangle?
- One side of a triangle is 56 m, the second side is 15 m longer than the first. The third side of the triangle is 28 m shorter than the second. What is the perimeter of the triangle?





12 a) Use a ruler to draw a line segment, name it AB. Put the points C and D on the segment AB.

How many line segments do you see in the drawing? \_\_\_\_\_\_
Name them: \_\_\_\_

b) Use a ruler to draw a ray, name it AB. Put the points C and D on the ray AB.

How many rays and line segments do you see in the drawing? \_\_\_\_\_

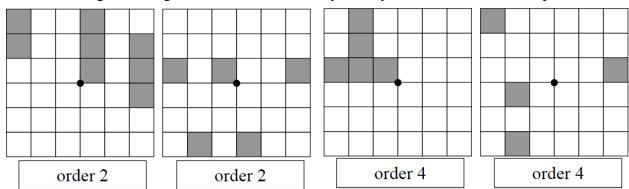
Name them: \_\_\_\_\_

c) Use a ruler to draw a straight line, name it AB. Put points C and D on the line AB.

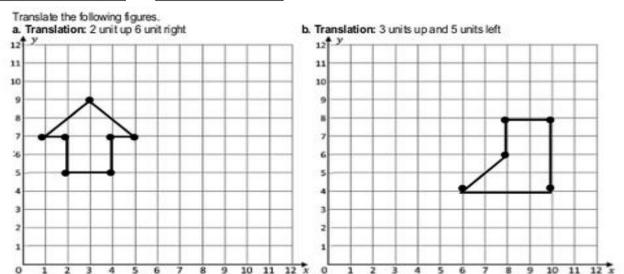
How many rays and line segments do you see in the drawing? \_\_\_\_\_\_

Name them: \_\_\_\_\_

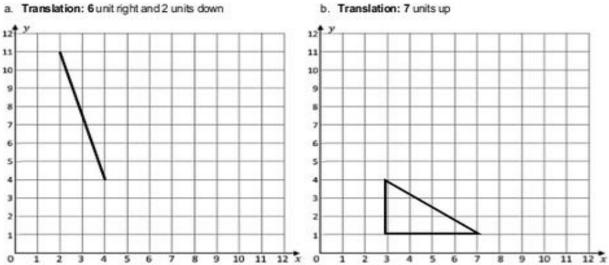
Finish the drawing according to the order of rotation symmetry. Rotation is around the point in the center.



14



a. Translation: 6 unit right and 2 units down



15

Can you move just two of these matchsticks to form four triangles?

