

## Math 3 Homework 18



3

Complete the number patterns:

\_\_\_\_, \_\_\_\_, 15, 21, 27

\_\_\_\_, \_\_\_\_, 16, 32, 64

5, 10, 17, 22, 29, 34, \_\_\_\_, \_\_\_

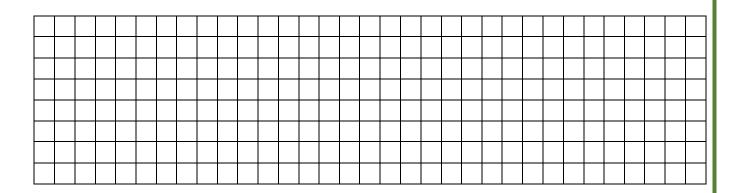
Write down the expressions for each problem: 2

- a) There is c kg of apples in each box. There are 4 boxes of green apples and 5 boxes of red apples. What is the total weight of all boxes?
- b) Seven boxes contain 28 kg of apples. How many boxes contain 36 kg of apples? \_\_\_\_\_
- c) Connie eats 2 sausages a day. Rob eats 3 sausages a day. How many days will 35 sausages last for two of them?
- $1m = \underline{\hspace{1cm}} dm = \underline{\hspace{1cm}} cm$  $1m^2 = \underline{\qquad} dm^2 = \underline{\qquad} cm^2$
- Solve the following equations and check your answers: 4

$$(230 + 18) + \mathbf{x} \div 6 = 286$$
  $(15 \times \mathbf{x}) \div 10 = 36$   $15\mathbf{b} + 312 = 402$ 

$$(15 \times x) \div 10 = 36$$

$$15b + 312 = 402$$



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

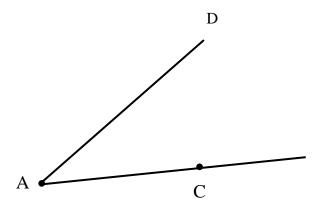


- 6.
- What is the area in sq. cm of a table, which is 2m long and 7dm wide?
- A =



- **7.**
- Jonathan's mother wants to repaint one wall in his room. The wall is 10 feet long, the ceiling of the room is 8 feet high. There is a one window in the wall, which is 3 foot wide and 5 foot high. What is the area in square feet of the part of the wall that she wants to paint? Draw a picture of the wall with a window to help you with calculations.
- A = \_\_\_\_\_

- 8
- Use **a compass** to find a point B on the side of the angle  $\angle DAC$ , so that the point B is at the same distance from the vertex of the angle A, as point C is, but lies on the other side of the angle.



- 9
- Mark the order of operations and evaluate the following expressions:

$$749 \div 749 + 0 \div 319 - 219 \times 0 =$$

$$(626-108) + (132-76+204) - (252-184) =$$

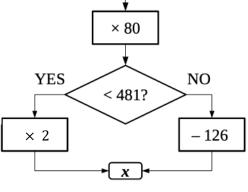
$$626 - (108 + 132) + (76 + 204 - 252) - 184 =$$

10

To solve the riddle, fill in the first table values for x; then in the second table arrange the letters in the decreasing order for x.







x					
Letter					

The area of the rectangle is  $24 \text{ cm}^2$ . How long can be the sides of such a rectangle? Fill in the possible values of a and b (sides of the rectangle) and perimeters for each rectangle with an area of  $24 \text{ cm}^2$ .

	24 cm <sup>2</sup>	24 cm <sup>2</sup>	24 cm <sup>2</sup>	24 cm <sup>2</sup>
а				
b				
P				

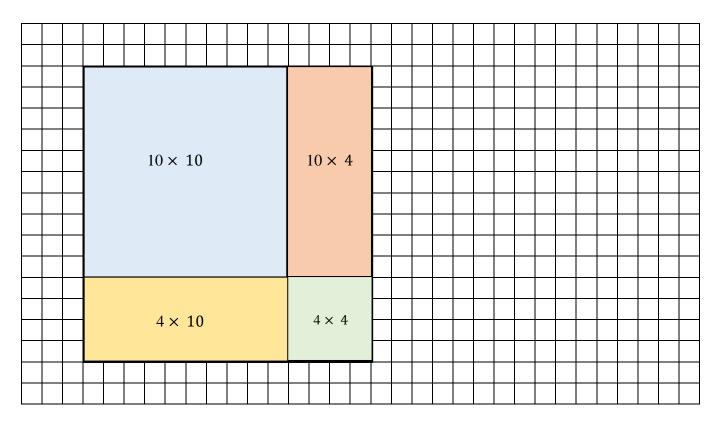
The perimeter of the rectangle is 24 cm. How long can be the sides of such a rectangle? Fill in the possible values of *a*, *b*, *c* and *d* (sides of the rectangle) and areas for each rectangle with a perimeter of 24 cm.

	24 cm					
а						
b						
c						
d						
A						

13

Use a distributive property of multiplication to calculate.

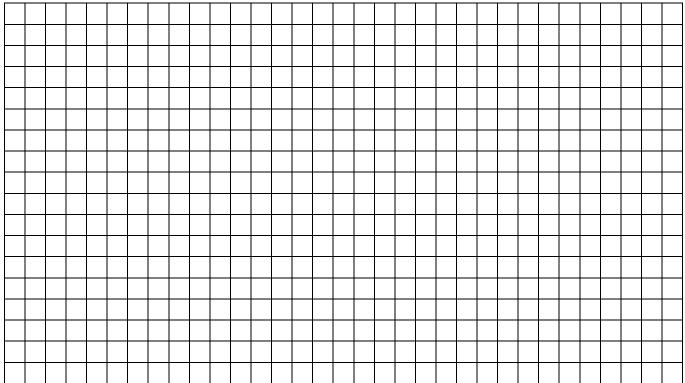
*Example:*  $14 \times 14 = (10 + 4) \times (10 + 4) =$ 



$$14 \times 14 = (10 + 4) \times (10 + 4) = 10 \times 10 + 10 \times 4 + 4 \times 10 + 4 \times 4 = 100 + 40 + 40 + 16 = 196$$

Make a sketch to visualize the expression:

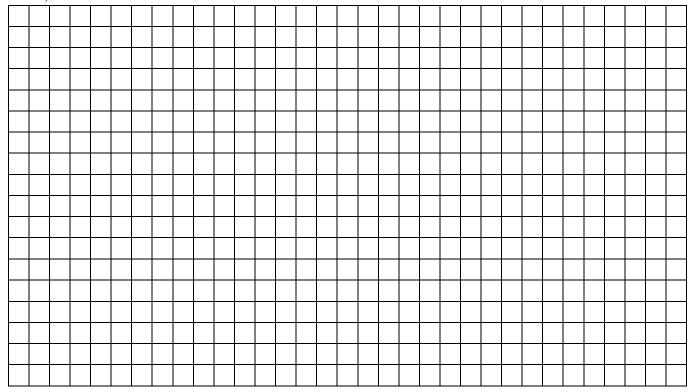
a) 
$$16 \times 23 =$$



HW 18

Review

b) 
$$13 \times 28 =$$



The shape on the drawing is made of a rectangle and a square. Find its perimeter and area. 14

€ cm	<b>5 cm</b> ►	<u> 6 cm</u> →
		4 cm

$$P = \underline{\hspace{1cm}}$$

15 Compare:

 $205 dm \_ \_ 2500 cm \qquad 1 m \ 5 cm \_ \_ 11 dm \ 5 cm \qquad 3 m \ 4 dm \_ \_ 350 cm$ 

98dm \_\_\_\_ 980cm

50dm \_\_\_\_\_ 5m 10cm

69cm \_\_\_ 6dm 9cm

16 Calculate in columns:

$$308 + 2011 + 89 =$$

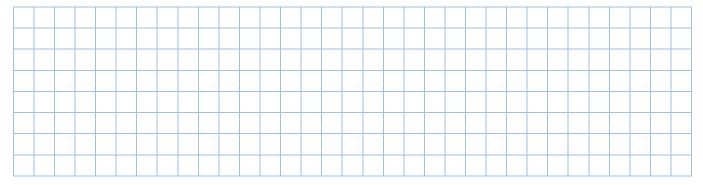
$$8506 - 658 =$$

17

Multiply (in columns):

- a)  $812 \times 16 =$
- b)  $406 \times 204 =$

c)  $123 \times 590 =$ 



18

a) Do you remember "square" numbers? Construct the next two. What is the pattern?







b) Do you remember "triangle" numbers? Construct the next four. What is the pattern?







- 3



6