Math 3 Homework 18

Time to start:_____

1

Complete the number patterns:

___, ____, 15, 21, 27

___, ____, 16, 32, 64

5, 10, 17, 22, 29, 34, ____, ____

2

Write down the expressions for each problem:

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? _____

3

1m = _____ dm = _____ cm

$1m^2$ = _____ dm^2 = _____ cm^2

4

Solve the following equations and check your answers:

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

Report the time you spent: _____

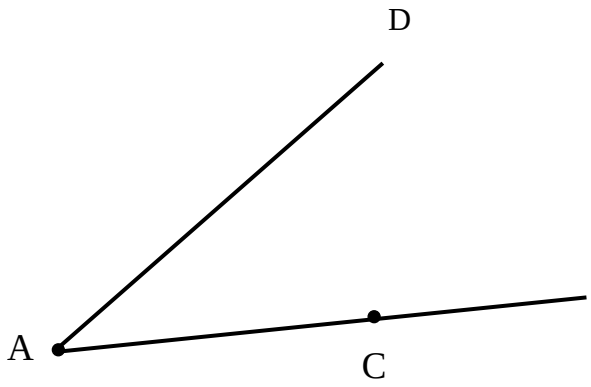
6 What is the area in sq. cm of a table, which is 2m long and 7dm wide?

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 ÷ 749 + 0 ÷ 319 – 219 × 0 = _____

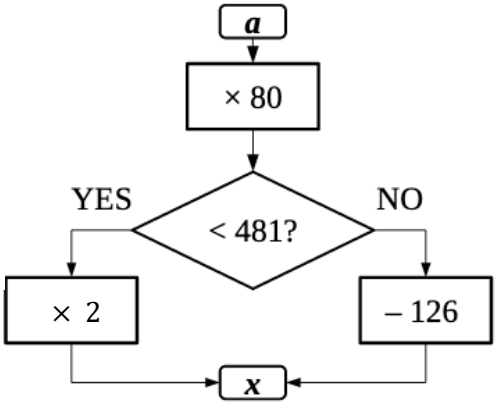
(626 – 108) + (132 – 76 + 204) – (252 – 184) = _____

626 – (108 + 132) + (76 + 204 – 252) – 184 = _____

Independent work

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.

a	1	2	3	4	5	6	7	8	9
x									
	E	N	P	R	O	P	I	U	C



x										
Letter										

11 The area of the rectangle is 24 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 cm^2.

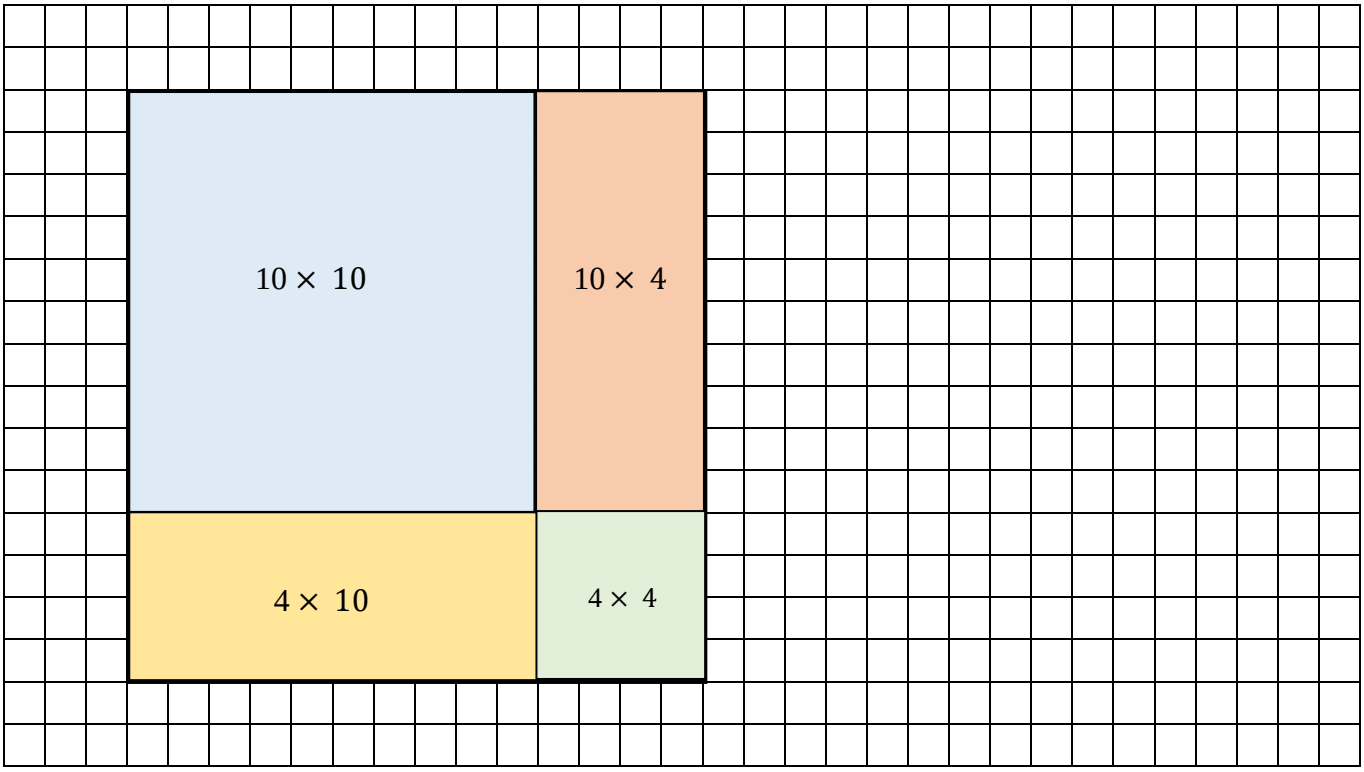
	24 cm^2	24 cm^2	24 cm^2	24 cm^2
a				
b				
P				

12 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	24 cm	24 cm	24 cm	24 cm	24 cm
a						
b						
c						
d						
A						

13 Use a distributive property of multiplication to calculate.

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



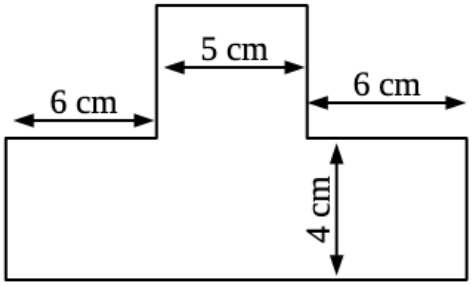
$14 \times 14 = (10 + 4) \times (10 + 4) = 10 \times 10 + 10 \times 4 + 4 \times 10 + 4 \times 4 = 100 + 40 + 40 + 16 = 196$

Make a sketch to visualize the expression:

a) $16 \times 23 =$

b) 13 × 28 =

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



P = _____

A = _____

15 Compare:

205dm _____ 2500cm 1m 5cm _____ 11dm 5cm 3m 4dm ____ 350cm

98dm ____ 980cm 50dm _____ 5m 10cm 69cm ___ 6dm 9cm

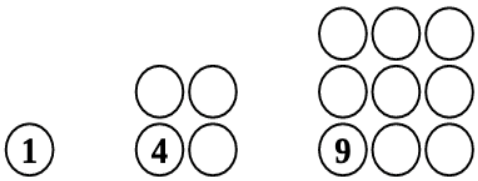
16 Calculate in columns:

899 + 1512 = 308 + 2011 + 89 = 8506 – 658 =

17 Multiply (in columns):

a) 812 × 16 = b) 406 × 204 = c) 123 × 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?