



HW 16

Equation with division.

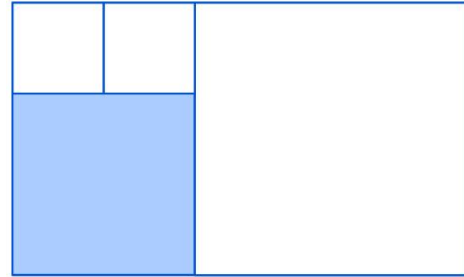
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Rectangle is divided in 4 squares. Find a perimeter of a rectangle if one side of the shaded square is 6cm. Find the length and width of the rectangle first.

Length = \_\_\_\_\_

Width = \_\_\_\_\_

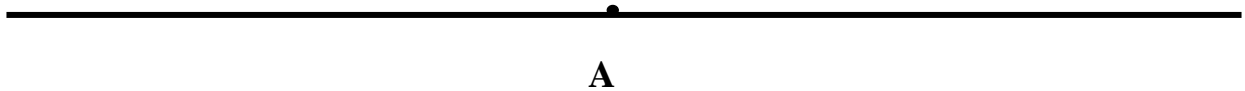
P = \_\_\_\_\_



7

Using a ruler, place a point B on the distance of 4 cm to the left from point A.

Using a compass, find the position of point C so that point C is twice as far from point A to the right, as point B to the left.



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Using a compass, find all points located 4 cm away from point A and 5 cm away from point B. How many points did you find? \_\_\_\_\_



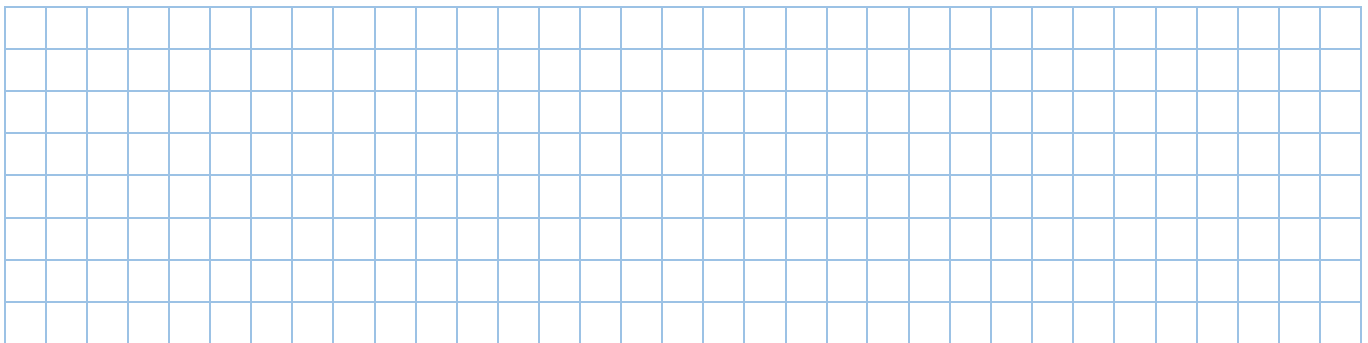
9

Multiply (in columns):

a)  $82 \times 67 =$

b)  $46 \times 24 =$

c)  $123 \times 32 =$



10

Calculate, follow the order of operations:

$$24 \overset{6}{:} 3 - (3 \overset{7}{+} 5 \overset{4}{\cdot} 2 - (10 \overset{3}{:} 2 \overset{5}{+} 1) \overset{1}{+} 1) \overset{2}{=} \dots$$

- a)  $200 - 80 \div 5 + 3 \times 4 =$  \_\_\_\_\_
- b)  $4 \times 8 + 42 \div 6 \times 5 =$  \_\_\_\_\_
- c)  $63 + 100 \div 4 - 8 \times 0 =$  \_\_\_\_\_
- d)  $72 \times 10 - 64 \div 2 \div 4 =$  \_\_\_\_\_

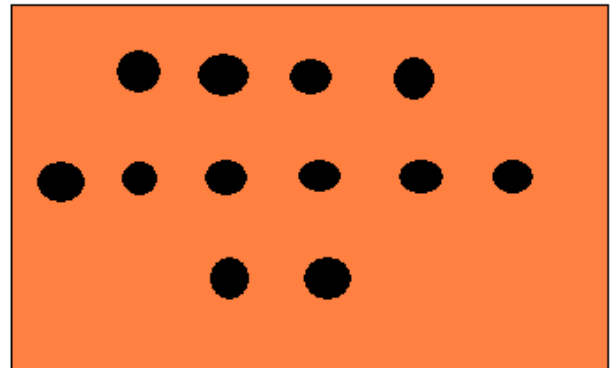
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Write an algebraic expression for the following statements:

- a) A sum of numbers  $a$  and  $b$  multiplied by the difference of numbers  $c$  and  $d$  \_\_\_\_\_
- b) Subtract number  $k$  from the difference of numbers  $m$  and  $n$  \_\_\_\_\_
- c) Add the difference of the numbers  $k$  and  $t$  to the product of the numbers  $a$  and  $c$  \_\_\_\_\_
- d) The difference between the numbers  $b$  and  $m$  divided by the product of the numbers  $k$  and  $t$  \_\_\_\_\_

12

Twelve nails were nailed on to the board. The distance between adjacent nails is 1cm. How to stretch a string 11cm long between the most left and most right nails of the middle row so that it passes through all the nails. Use a pencil to show your solution.



13

A pharmacy has an old balance scale, which has only two measuring weights: 30 grams and 5 grams. A pharmacist must divide 300 grams of powder medicine into 3 small bags – 150 gram in the 1<sup>st</sup> bag, 100 grams in the 2<sup>nd</sup> bag and 50 grams in the 3<sup>rd</sup> bag. How can he do it if he can only weigh 3 times?

\_\_\_\_\_

\_\_\_\_\_



14

Practice working with a compass. Continue the patterns using a compass.

