Math 3 Homework 16

1 Compare expressions using <, >, =.

$15 \times 4 \ldots 16 \times 2$	$21 \times 3 \ldots 22 \times 2$	$90 \div 6 \ldots 90 \div 7$
$4 \times 5 \ldots 60 \div 4$	$60 \div 2 \ldots 60 \div 3$	$75 \div 5 \ldots 85 \div 5$

2 Solve the following equations and check your answers:

$x \div 9 = 1$ $5 \div y = 5$ $q \times 1 = 9$ $p \div 7 = 1$

3 Compare, using <, > and = :

$48 + 36 + 14 \ldots 48 + (36 + 14)$	$73 - 17 + 29 \ldots 73 - (17 + 29)$
$81 \div 9 \times 4 \ldots 81 \times 4 \div 9$	$12 \div 6 \times 5 \ldots 12 \times 5 \div 6$

4 Calculate (remember about an order of operations). Do NOT use a calculator.

$80 - (6 + 9) \div 5 =$ _____

$95 + (28 + 7) \div 5 =$ _____

Report the time you spent: _____

5. Calculate and express in meters, dm and cm:

a) $9m - 34dm + 2m\ 9dm =$ _____

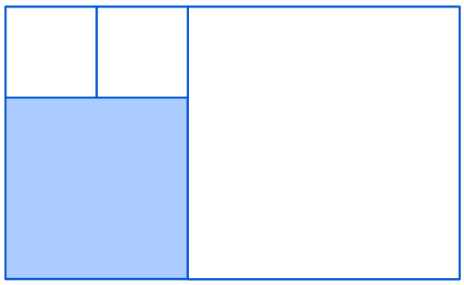
b) $1m - 4dm\ 8cm - 1dm\ 7cm$ _____

6. 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.

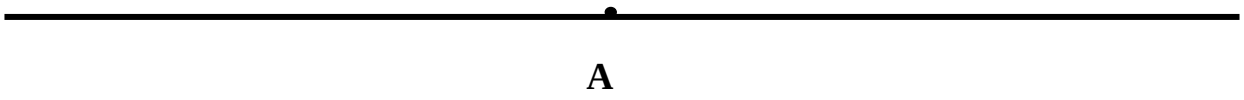
Length = _____

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.



A

8. 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? _____

B

A

9. Multiply (in columns):

a) 82 × 67 = b) 46 × 24 = c) 123 × 32 =

10 Calculate, follow the order of operations:

$$24 : 3 - (3 + 5 \cdot 2 - (10 : 2 + 1) = \ldots$$

(6) (7) (4) (3) (5) (1) (2)

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) $72 \times 10 - 64 \div 2 \div 4 =$ _____

11 Write and algebraic expression for the following statements:

a) A sum of numbers ***a*** and ***b*** multiplied by the difference of numbers ***c*** and ***d*** _____

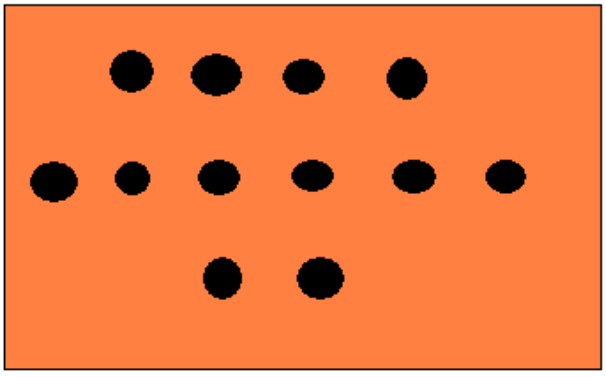
b) Subtract number ***k*** from the difference of numbers ***m*** and ***n*** _____

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***

_____

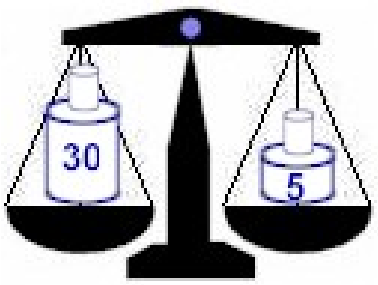
12 Twelve nails were nailed on to the board. The distance between adjacent nails is 1cm. How to stretch a string 11cm long between the most left and most right nails of the middle row so that it passes through all the nails. Use a pencil to show your solution.



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 1st bag, 100 grams in the 2nd bag and 50 grams in the 3rd bag. How can he do it if he can only weigh 3 times?

_____

_____



HW 16 Equation with division.

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