school nova™

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 = _____
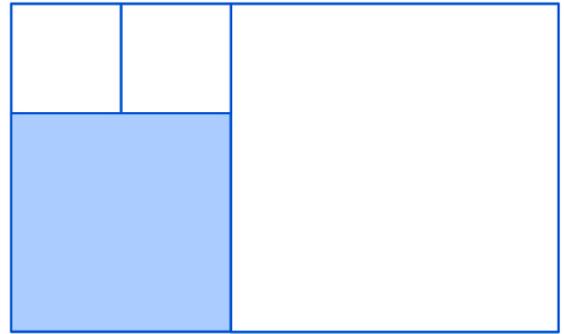
7. Using a ruler, place a point B on the distance of 4 cm to the left from point A.
Using a compass, find the position of point C so that point C is twice as far from point A to the right from point A, as point B to the left.

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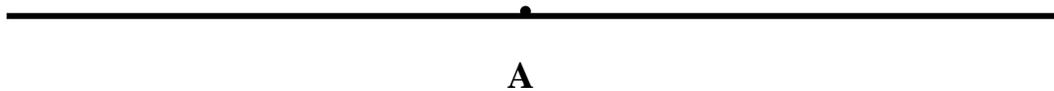
8. Using a compass, find all points located 4 cm away from point **A** and 5 cm away from point **B**. How many points did you find? _____

B
A

9. Multiply (in columns):

a) $82 \times 67 =$ b) $46 \times 24 =$ c) $123 \times 32 =$
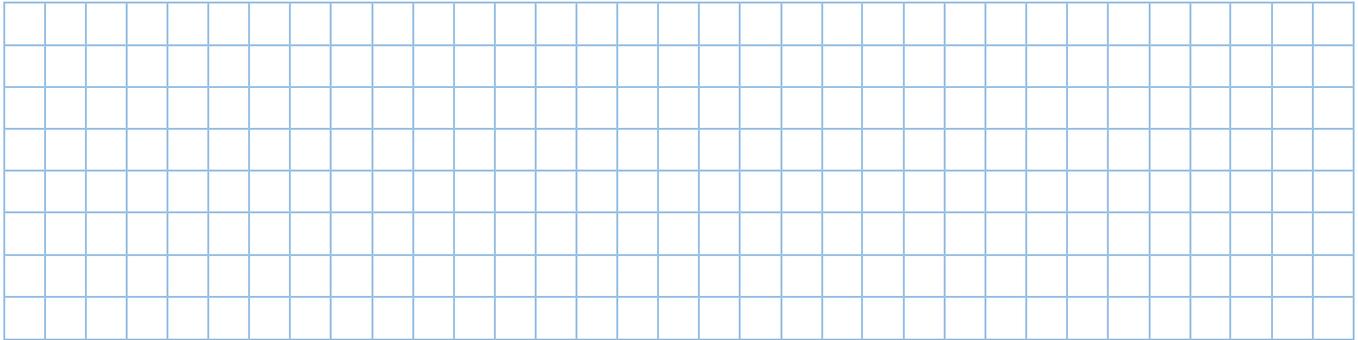
10 Calculate, follow the order of operations:

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

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

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.

Equation with division.
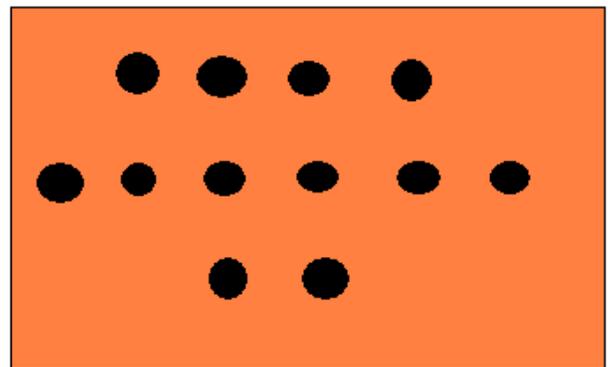
13   Practice working with a compass. Continue the patterns using a compass.