school nova™

Math 3   Homework 19

Independent work

_____

1

Calculate using the most convenient way. Rewrite the expression or place the parentheses, if necessary:

    a) $276 + 49 + 124 =$

    b) $325 + 512 + 75 =$

    c) $612 - 270 - 313 =$

    d) $20 \times 7 \times 5 =$

2

Long multiplication (make columns):

    a) $82 \times 67 =$ b) $46 \times 24 =$ c) $123 \times 32 =$

3

Calculate and write down the answer with a remainder where needed:

$28 \div 3 =$ $28 \div 4 =$ $28 \div 5 =$ $28 \div 6 =$

4

Write down the expressions for each problem and solve the problems:

a) There are 75 cookies laying on *w* plates. How many cookies are in 3 plates? _____

b) 5 cans of juice cost 75 dollars. How many cans can one buy with 900 dollars? _____

_____

c) There are a potatoes in each of *b* baskets and 3 tomatoes in each of *w* bags. How many vegetables are there in total? _____

5

Calculate by the most optimal way:

10m – 6m 9cm + 2m 8cm + 4m 1cm =

14m 5dm – 7m 5dm8cm – 6m2cm + 7m1dm =
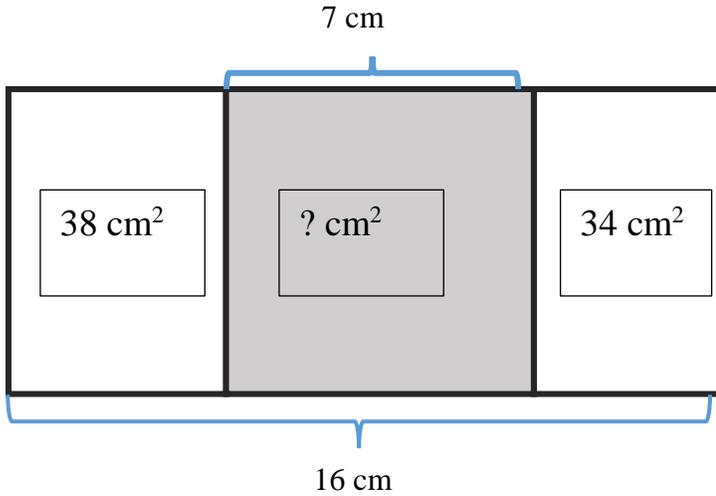
Report the time you spent: _____

6. Compare without making a calculation. Use <, > , =

$(54 - 42) \div 3 \ldots 54 \div 3 - 42 \div 3$ $18 \times 12 \ldots 11 \times 18 - 18$

$54 \times (6 - 3) \ldots 54 \times 6 - 54 \times 3$ $204 \times 3 \ldots 204 \times 2 - 204$

7. Find an area of a middle rectangle. Find a perimeter of the entire shape.

7 cm

| 38 cm² | ? cm² | 34 cm² |

16 cm

A = _____

P = _____

8. Convert:

2 dm² = _____ cm²   3 dm² = _____ cm²   5 m² = _____ dm²

100 dm² = _____ m²   11 dm = _____ cm   200 dm² = _____ m²

500 cm = _____ dm   300 dm² = _____ m²   20 dm² = _____cm²

9. Calculate, follow the order of operations:

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

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

e) $54 + (13 + 61 - 4 \times (2 + 3)) =$ _____

f) $(4 + (4 + (12 - 6 \div 2)) -2) -6 =$_____

10 Find quotient and remainder from the division of different numbers by 6.

$10 \div 6 =$ ___ + ____ $14 \div 6 =$ ___ + _____ $19 \div 6 =$ ___ + ___

$16 \div 6 =$ ___ + ___ $17 \div 6 =$ ___ + ____ $13 \div 6 =$ ___ + ___
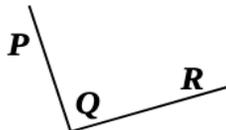
11 What kind of angles do you see on the drawing?
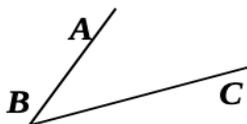
$\angle NST$ is _____ $\angle PQR$ is _____

$\angle ABC$ is _____ $\angle EFL$ is _____

12 Find a number in the table which can be divided by 8 with a remainder 1?

67	72	51
42	73	64
60	20	69

13 A road construction team is repairing a road. It has repaired 156 meters. The remaining part is 5 times the part repaired. What is the total length of the road? Draw a diagram to help yourself solve a problem.

14

a) Draw a quadrilateral in which all of the angles are different sizes. Label the angles.

b) Draw a quadrilateral in which two of the angles are the same size. Label the angles.

15

Use the distributive property to multiply 35×35. During the class on Sunday, you were asked to find out how to make this kind of multiplication fast. Come up with the strategy. Draw the picture if it will help you.