Math 3   Homework 19

_____

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:

$10m - 6m\ 9cm + 2m\ 8cm + 4m\ 1cm =$

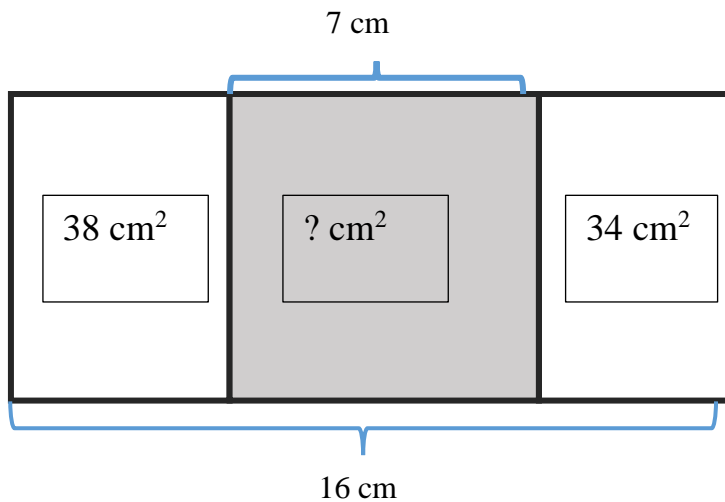$14m\ 5dm - 7m\ 5dm8cm - 6m2cm + 7m1dm =$

Report the time you spent: _____

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

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

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

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

7 cm

38 cm^2 ? cm^2 34 cm^2

16 cm

A = _____

P = _____

8 Convert:

2 dm^2 = _____ cm^2 3 dm^2 = _____ cm^2 5 m^2 = _____ dm^2

100 dm^2 = _____ m^2 11 dm = _____ cm   200 dm^2 = ____ m^2

500 cm = _____ dm   300 dm^2 = _____ m^2 20 dm^2 = _____ cm^2

9 Calculate, follow the order of operations:

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

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

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

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

Division with remainder.

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

$10 \div 6 =$ ___ R ____ $14 \div 6 =$ ___ R_____ $19 \div 6 =$ ___ R___

$16 \div 6 =$ ___ R ___ $17 \div 6 =$ ___ R ____ $13 \div 6 =$ ___ R ___

11 What kind of angles do you see on the drawing?
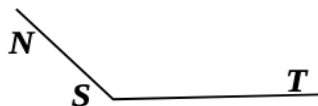
∠**NST** is _____   ∠**PQR** is _____
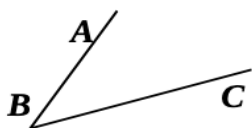
∠**ABC** is _____   ∠**EFL** is _____
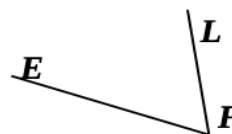
12 Find a number in the table which can be divided by 8 with a remainder 1?

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.

Division with remainder.

14

a) Draw a quadrilateral in which all 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.