## school (5)

## Math 3 Homework 24

TIME this page work – Start time:



Practice working with parentheses:

Open parenthesis:

- a) 25(y+4) =
- b) 6(z-9) =\_\_\_\_





2 Open parentheses and simplify:

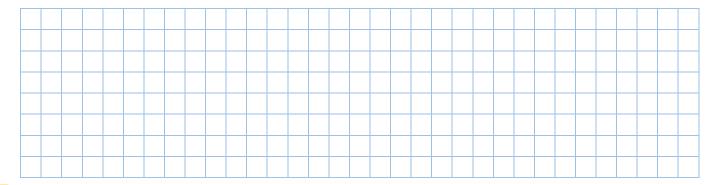
- a) 4(25+4x) 3(2x+9) =
- b) 2(2t+23)-4(t-9)=
- c)  $(m-3) \times 10 (m+8) \times 5 =$

One-digit-one-line Long Multiplication. Remember about Place Value!

a) 
$$762 \times 31 =$$

b) 
$$762 \times 310 =$$

c) 
$$762 \times 3105 =$$



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3

Write down a number sentence and find its value:

- a) The difference of one hundred twenty-two and eighty-seven is divided by 5:
- b) The product of eleven and 5 is added to three hundred and eight

c) One thousand and two added to the quotient of 75 and 3

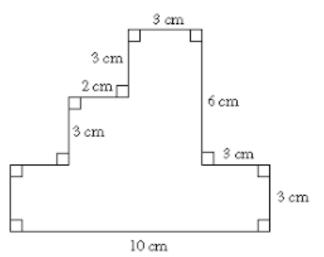
\_\_\_\_\_

Report the time you spent on page 1: \_\_\_\_\_



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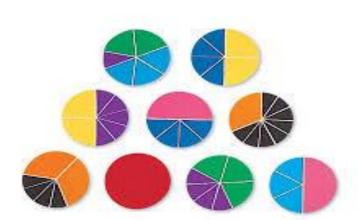
Find the perimeter and the area of the following shape. Try to use the most optimal way to calculate. Show your work. Don't forget about units!



Perimeter = \_\_\_\_\_

Area = \_\_\_\_\_

6



There are 9 circles on the picture below. Find the fractions shaded by each color:

**Example:** Circle #1 – the circle is divided into 6 parts –  $\frac{3}{6}$  or  $\frac{1}{2}$  of the circle is blue;  $\frac{1}{6}$  of the circle is purple and  $\frac{2}{6}$  or  $\frac{1}{3}$  is green.

Circle # 2 \_\_\_\_\_

Circle # 3 \_\_\_\_\_

Circle # 4 \_\_\_\_\_

Circle # 5 \_\_\_\_\_

Circle # 6 \_\_\_\_\_

Circle # 7 \_\_\_\_\_

Circle # 8 \_\_\_\_\_

Circle # 9 \_\_\_\_\_

## HW 24

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Use the commutative property of addition and INSERT parenthesis to calculate the most convenient way. Don't forget that the sign belongs to the number immediate after the sign.

- a) 305 25 75 105 =
- b) 979 41 + 21 59 =
- c) 135 + 92 33 + 82 42 67 =
- 8

Sean had a 900 ml of apple juice. He wanted to divide all juice between 5 glasses (A, B, C, D and E). Half of the juice was equally shared between glasses A and B. The other half of the juice was equally shared between glasses C, D and E. How much juice was in each glass? Show your work!

- A: \_\_\_\_\_
- B: \_\_\_\_\_
- C: \_\_\_\_\_
- D: \_\_\_\_\_
- 9

Camilla has a pencil measuring 16 cm long and it weighted 4 grams.

Cathy had a similar pencil, and hers measured 8 cm long. How much do you think it weighed?

Daniel also had a similar pencil and it weighed 3grams. How long do you think Daniel's pencil was?

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Compare, using <, > or =. Think carefully about an order of operations:

$$8 \times 64 - 40 \dots 8 \times (64 - 40)$$

$$100 \div 5 + 5 \dots 100 \div (5 + 5)$$

$$20 + 50 \times 8 \dots (20 + 50) \times 8$$

$$12 \times 43 + 51 \times 5 \dots 5 \times 51 + 43 \times 12$$

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Long division:

a) 
$$2761 \div 11 =$$

b) 
$$450 \div 18 =$$



12

Write the answer for each question:

- a) There are total 40 kg of apples packed in 8 identical bags (equal amount in each)

  - How many kgs of apples are in x such bags?
- b) There are a kgs of apples packed by in b bags

  - How many bags would you need to pack *q* kgs of apples? \_\_\_\_\_
- c) A train traveled 200 km at an even speed for 5 hours.

How many hours would be needed to cover 1000 km?

To simplify a fraction (reduce it to lowest terms), the numerator and the denominator must be divided by the same nonzero whole number. A fraction is in lowest terms when the greatest common factor (GCF) of its numerator and denominator is one.

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Reduce the following fractions to the lowest term:

a) 
$$\frac{20}{60}$$
=

b) 
$$\frac{24}{72} =$$

c) 
$$\frac{25}{200}$$
 =

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Compare the fractions below. Use the symbols >, =, or < to record your comparisons. Draw a picture if you need to illustrate your answer.

a) 1/8... 3/8

b) 3/10 ... 9/10

c) 3/4 ... 1/4