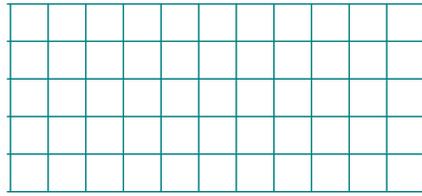


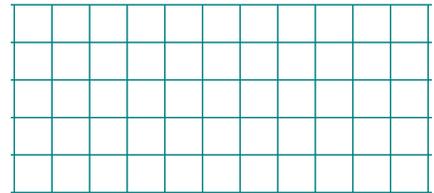
Lesson № 16

1 Write the expressions for the word problems:

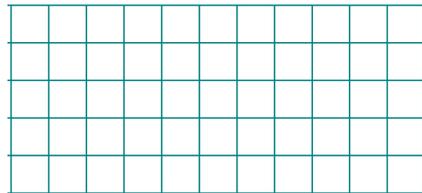
A. There were x plates of cupcakes at a party. Each plate had 8 cupcakes. If y cupcakes were eaten, how many are left over?



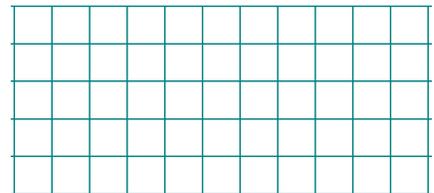
B. There are b children going to the zoo. If each bus has c seats that hold d amount of students. How many buses will fit all of the children?



C. I have a dollars. If I buy 9 books that cost d dollars each and 4 pencils that cost b dollars each, how much money will I have left?



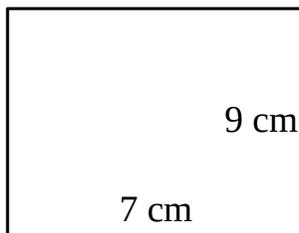
D. Anna walked x miles and swam for y miles. Her sister walked twice as far and swam four times less. How many miles did Anna's sister walk and swim altogether?



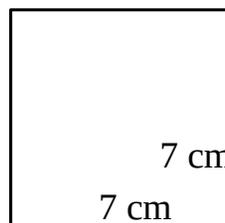
Perimeter:

Perimeter of a polygon is the sum of the lengths of *all* its sides.

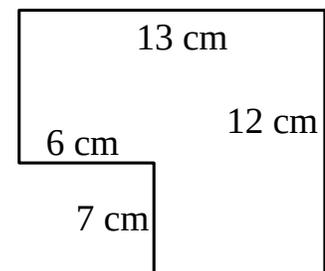
2 Calculate the perimeters of these polygons:



P =



P =



P =

Angle sum of a Triangle.

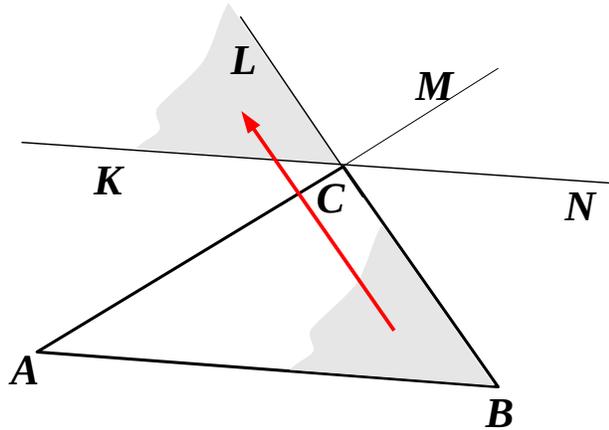
3 Compare:

$$\angle A \square \angle MCN$$

$$\angle B \square \angle LCK$$

$$\angle C \square \angle LCM$$

$$\angle MCN + \angle LCK + \angle LCM = 180^\circ$$

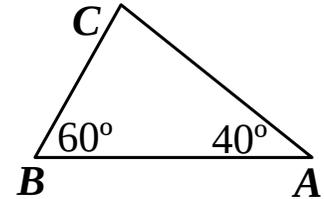


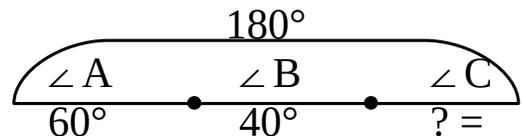
So, the angle sum of a triangle is 180° . $\angle A + \angle B + \angle C = 180^\circ$

Can a triangle have two obtuse angles? _____

Can a triangle have two right angles? _____

In triangle ABC, $\angle A = 40^\circ$ and $\angle B = 60^\circ$.
What is the measure of $\angle C$?



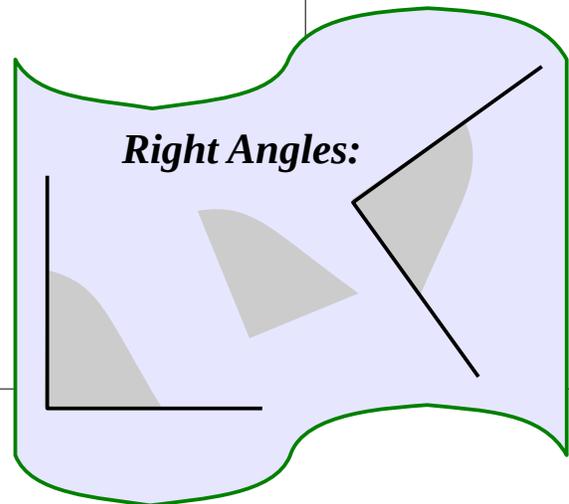


4 In $\triangle ABC$, $A = 45$, $B = 90$, find C . _____

In $\triangle ABC$, $A = 70$, $B = 30$, find C . _____

In $\triangle ABC$, $A = 100$, $B = 50$, find C . _____

Classification of triangles				
		By angles' measure		
		Acute	Right	Obtuse
By sides' measure	Scalene			
	Isosceles			
	Equilateral		Does not exist	Does not exist

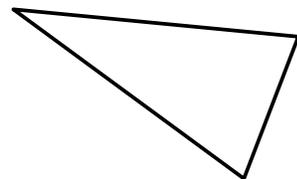


5

The triangle on the drawing is ...

_____ (by sides' measure) and

_____ (by angle).



6 Solving simple equations of the type:

$$36 - x \cdot 4 = 12$$

$$x \cdot 4 =$$

$$x \cdot 4 =$$

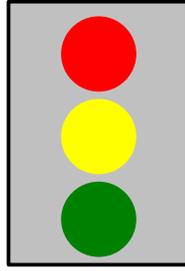
$$x =$$

$$x =$$

$$36$$

$$x \cdot 4$$

$$12$$



$$36 - x$$

$$12$$

$$4$$

Expression = Number

$$(36 - x) \cdot 4 = 12$$

$$36 - x =$$

$$36 - x =$$

$$x =$$

$$x =$$

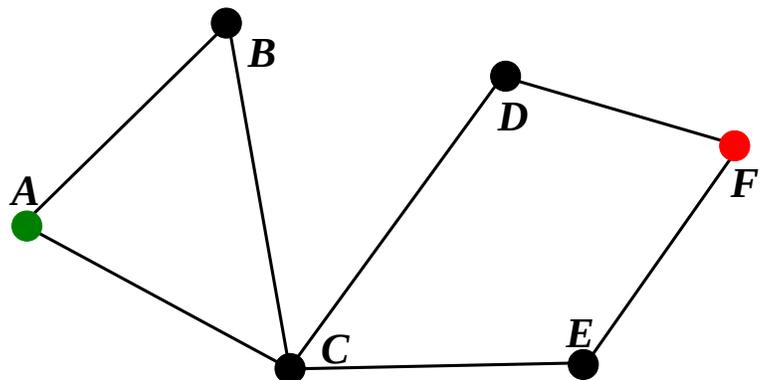
1. Identify the **last** operation in the expression
2. Make an appropriate auxiliary **drawing**
3. Use the drawing to **simplify** the original equation
4. Solve the simplified equation
5. **Check your answer !**

7

Foxy Tail lives in town **A** and he wants to visit his friend who lives in town **F**. The map below shows bus connections between nearby towns.

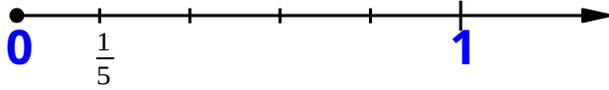
Which town must FT pass on his way from town **A** to town **F**?

If road **DC** is under construction, will FT be still able to visit his friend?



Dividing a Unit into Equal Parts

8



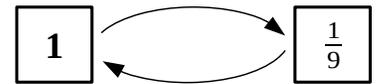
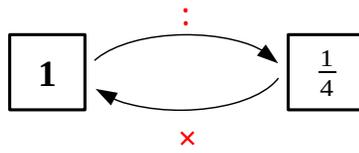
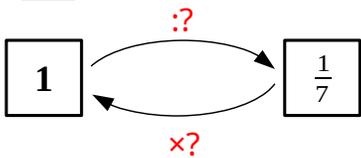
$$\frac{1}{5} = 1 : \square$$



$$\frac{1}{4} = 1 : \square$$

9

Write the operations that produce the following fractions below:



$$\frac{1}{2} = 1 : \square$$

$$\frac{1}{3} = 1 : \square$$

$$\frac{1}{4} = 1 : \square$$

$$\frac{1}{5} = 1 : \square$$

$$\frac{1}{2} \times \square = 1$$

$$\frac{1}{3} \times \square = 1$$

$$\frac{1}{4} \times \square = 1$$

$$\frac{1}{5} \times \square = 1$$

10

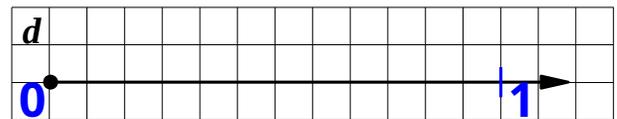
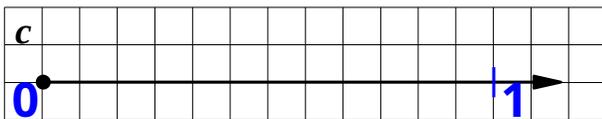
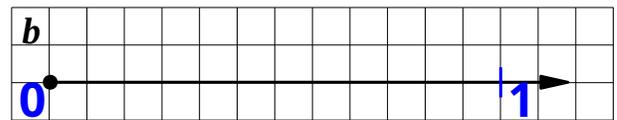
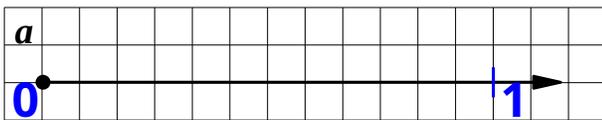
Mark the following fractions on the number rays:

a). $\frac{1}{3}$

b). $\frac{1}{2}$

c). $\frac{1}{6}$

d). $\frac{1}{12}$



11

List these fractions in the ...

A). ... increasing order: _____

B). ... decreasing order: _____

