

1

A **triangle** is a closed shape with three straight sides that meet at three vertices. It is a polygon.

Review the classification of the triangles:

Types of triangles:

By sides:



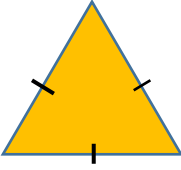
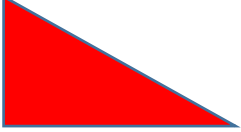
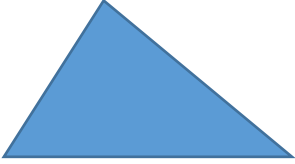
- a) **Scalene triangle** – no equal angles and no equal sides
- b) **Isosceles triangle** – 2 equal sides and 2 equal angles
- c) **Equilateral triangle** – 3 equal sides and 3 equal angles

By angles:

- a) **Right triangle**– has a right angle
- b) **Obtuse triangle** – has an angle that larger than a right angle
- c) **Acute triangle** – all angles are smaller than a right angle

2

Determine what triangle it is by it's sides and by it's angles (USE THE RIGHT ANGLE TEMPLATE OR PROTRACTOR):

Picture of a triangle	Type of the triangle
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HW 11

Triangles. Multiplication. Long multiplication. Parentheses.

3

Using a ruler and a protractor, draw the following shapes:

a) A shape with 3 line segments that is not a triangle.

b) A right isosceles triangle $\triangle ABC$

c) an obtuse isosceles triangle $\triangle PQR$

4

Compare expressions using $<$, $>$, $=$

$5 \times 6 - 5 \quad \underline{\hspace{1cm}} \quad 5 \times 5 + 5$

$7 \times 6 + 7 \quad \underline{\hspace{1cm}} \quad 6 \times 7 + 6$

$48 + 20 \quad \underline{\hspace{1cm}} \quad 4 \times 5 + 50$

$24 + 32 \quad \underline{\hspace{1cm}} \quad (32 - 24) \times 7$

5

While helping their mother to unload a dishwasher, Victoria put 5 plates on each of 3 shelves of the kitchen cabinet and Julia put 4 plates on the each of 3 shelves. How many plates did both of them put in the kitchen cabinet?

6

Calculate:(write in the vertical form) (USE THE TUTORIAL FROM THE CLASSWORK11)

a) $18 \times 3 =$

b) $77 \times 5 =$

c) $64 \times 7 =$



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7

Find the greatest missing number so that an inequality will still be correct.

$6 \times \underline{\quad} < 45$

$7 \times \underline{\quad} < 40 - 5$

$27 + 8 > 6 \times \underline{\quad}$

$\underline{\quad} \times 9 < 32$

$\underline{\quad} \times 5 < 4 \times 7$

$8 \times \underline{\quad} < 20 + 27$

8

Find the missing numbers to make an equality correct:

$15 \times 2 = 5 \times \underline{\quad}$

$12 \times \underline{\quad} = \underline{\quad} \times 24$

$14 \times 4 = 8 \times \underline{\quad}$

$15 \times 4 = 10 \times \underline{\quad}$

$25 \times \underline{\quad} = 10 \times 10$

$25 \times 3 = 5 \times \underline{\quad}$

9

Find ONLY the last digit of the product:

$45321 \times 423 \underline{\quad}$

$87325 \times 938162 \underline{\quad}$

$93824 \times 156832 \underline{\quad}$

$73815 \times 38915 \underline{\quad}$

$6783 \times 982713 \underline{\quad}$

$49812 \times 390 \underline{\quad}$

10

A school has planted 12 trees along one side of the road from one end to the other. One tree was planted every 6 meters. How long is the road?

11

Solve the problems:

a) There are a apples in a box. Each box of apples costs \$5.

What is the total price of 5 boxes? _____

How many apples are in 5 boxes? _____

b) James's mother bought 3 dresses. Each dress costs \$ c .

How much money did she spend for 3 dresses? _____

How much money she would spend for n dresses? _____

c) Tom's dad bought 2 watermelons and 6 times as many apples. Each watermelon costs \$4 and each apple costs \$2.

If he had a \$50 bill, how much money did he have left after his purchase?

d) Kate wants to give candies to all her friends who come to the party.

She wants to put 5 candies in each bag. Each child gets two bags of candies.

How many candies will she need for 10 guests? _____

How many bags will she need for 10 guests? _____

HW 11

Triangles. Multiplication. Long multiplication. Parentheses.

12

Open parentheses and simplify the expressions:

$$300 - (a + b) = \underline{\hspace{10cm}}$$

$$200 - (a + 2) + (b - 100) = \underline{\hspace{10cm}}$$

$$29 - (5 + b) = \underline{\hspace{10cm}}$$

$$30 - (5 + a) + (a + 15) = \underline{\hspace{10cm}}$$

$$70 - (b - a) = \underline{\hspace{10cm}}$$

$$72 - (2 - k) - (c - d) = \underline{\hspace{10cm}}$$

13

Determine order of operation in each expression and calculate the values:

$$18 + 12 - 8 - 6 = \underline{\hspace{2cm}}$$

$$32 - 10 + 6 - 3 = \underline{\hspace{2cm}}$$

$$18 + 12 - (8 - 6) = \underline{\hspace{2cm}}$$

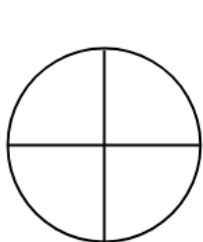
$$32 - (10 + 6) - 3 = \underline{\hspace{2cm}}$$

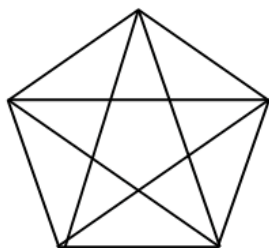
$$18 + (12 - 8) - 6 = \underline{\hspace{2cm}}$$

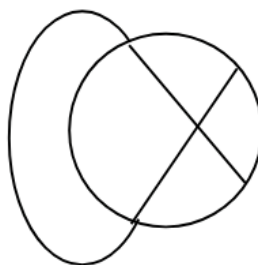
$$32 - 10 + (6 - 3) = \underline{\hspace{2cm}}$$

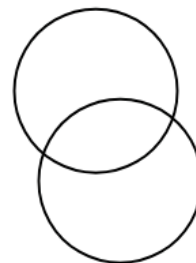
14

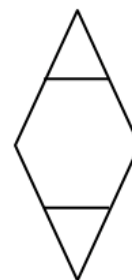
Try to trace every line in each diagram without lifting a pencil or tracing the same line twice. Is it possible to do for all of those five diagrams?











15

Write down an expression for each statement:

- 1) There were m pencils in one box, and there are k pencils in another box.
How many pencils are in two boxes together? _____

- 2) There were d pencils in one box, and we took away p pencils from the box.
How many pencils are in the box now? _____

- 3) There are f pencils in one box and 5 less pencils in another box.
How many pencils are in both boxes? _____

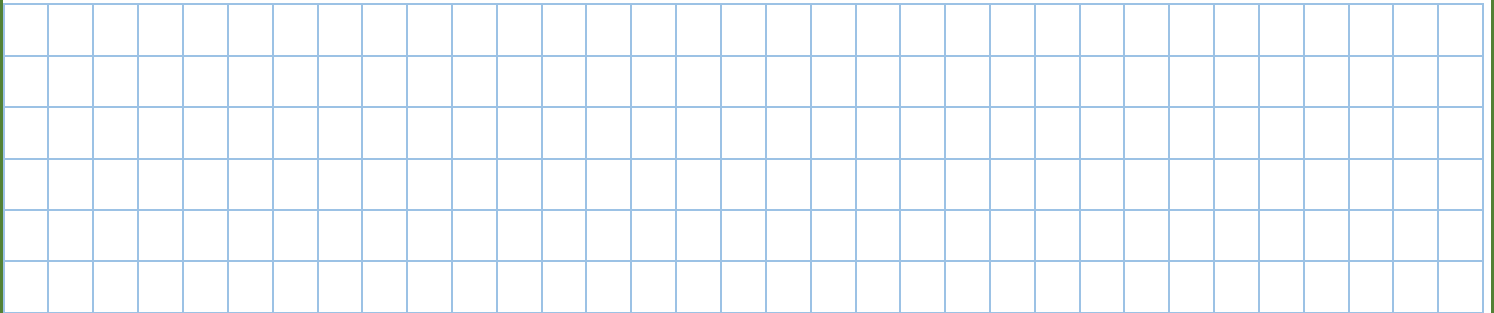
- 4) There were n pencils in one box and t pencils in another box.
We took away b pencils from the second box.
How many pencils are in both boxes now? _____

16

Solve equations and check you answers:

a) $(15 + 45) - x = 25$

b) $x - (101 - 11) = 110$



17

Please complete the multiplication exercise.

- 1) Put the timer on for three minutes and solve as many as you can!
- 2) Take a color pencil or pen and complete the rest.