Math 3 Homework 11

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:

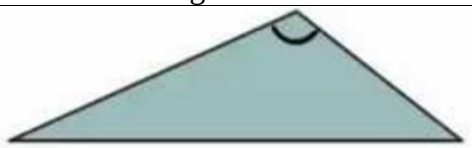
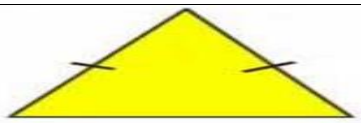
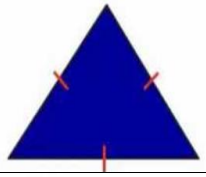
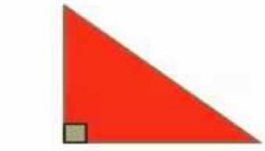
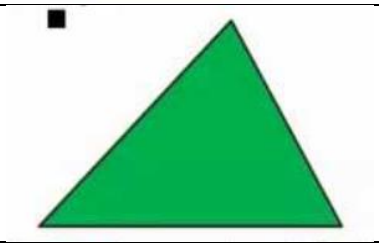
Types of triangles:

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
	_____ _____
	_____ _____
	_____ _____
	_____ _____
	_____ _____

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 △ABC

c) an obtuse isosceles triangle △PQR

4 Compare expressions using <, >, =

5 × 6 – 5 ____ 5 × 5 + 5

7 × 6 + 7 ____ 6 × 7 + 6

48 + 20 ____ 4 × 5 + 50

24 + 32 ____ (32 – 24) × 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 PAGE5)

a) 18 × 3 = b) 77 × 5 = c) 64 × 7 =

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

$6 \times \_\_\_\_ < 45$ $7 \times \_\_\_\_ < 40 - 5$ $27 + 8 > 6 \times \_\_\_\_\_$

$\_\_\_\_ \times 9 < 32$ $\_\_\_\_ \times 5 < 4 \times 7$ $8 \times \_\_\_\_ < 20 + 27$

8 Find the missing numbers to make an equality correct:

$15 \times 2 = 5 \times \_\_\_\_$ $12 \times \_\_\_\_ = \_\_\_\_\_ \times 24$ $14 \times 4 = 8 \times \_\_\_\_\_$

$15 \times 4 = 10 \times \_\_\_\_$ $25 \times \_\_\_\_ = 10 \times 10$ $25 \times 3 = 5 \times \_\_\_\_\_$

9 Find ONLY the last digit of the product:

45321×423 _____ 87325×938162 _____ 93824×156832 ____

73815×38915 ____ 6783×982713 _____ 49812×390 _____

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?

_____
_____

12

Open parentheses and simplify the expressions:

300 – (a + b) =_____

200 – (a + 2) + (b – 100) =_____

29 – (5 + b) = _____

30 – (5 + a) + (a + 15) =_____

70 – (b – a) = _____

72 – (2 – k) – (c – d) = _____

13

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

18 + 12 – 8 – 6 = _____

18 + 12 – (8 – 6) = _____

18 + (12 – 8) – 6 = _____

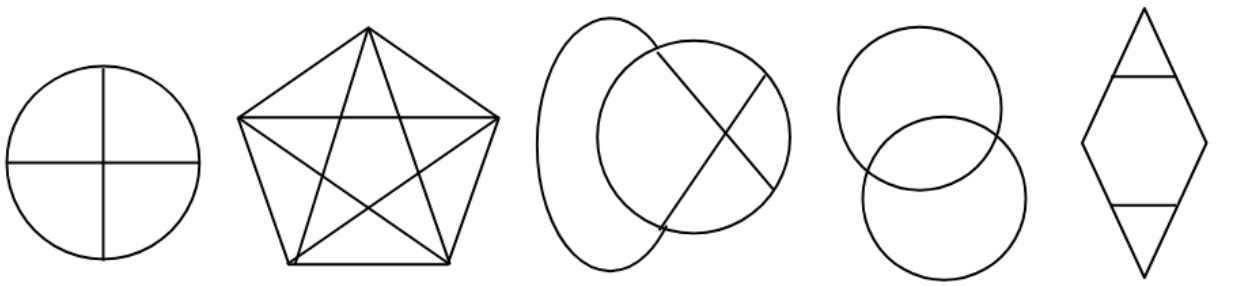
32 – 10 + 6 – 3 = _____

32 – (10 + 6) – 3 = _____

32 – 10 + (6 – 3) = _____

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

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.