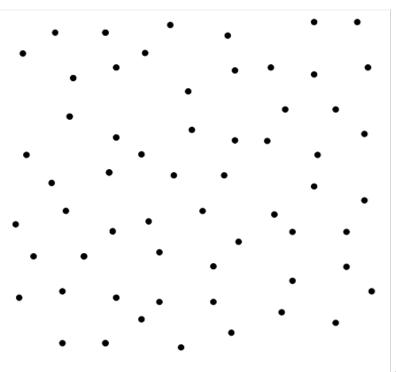


Classwork 17

NEW MATERIAL

1. Count points



of points:_____

2.

Now try to divide these points into groups of 5 before counting them:

How many groups of 5 did you count?

How can we count them now?

By adding:

By skip counting

Does grouping make it easier to count?_____

Should we always add or skip count?_____

Lesson 17

2017-2018

Calculate:

$$3 + 3 + 3 + 3 + 3 =$$
_____, therefore $3 \times 5 =$ _____

$$7 + 7 + 7 + 7 =$$
_____, therefore $7 \times$ __ = _____

$$4 + 4 + 4 + 4 + 4 =$$
_____, therefore $4 \times$ __=

$$8 + 8 + 8 =$$
 , therefore $8 \times =$

4.

16 times

$$a + a + a + a + a + a + a = \underline{\hspace{1cm}}$$

$$a + a + \dots + a = \underline{\hspace{1cm}} \times$$

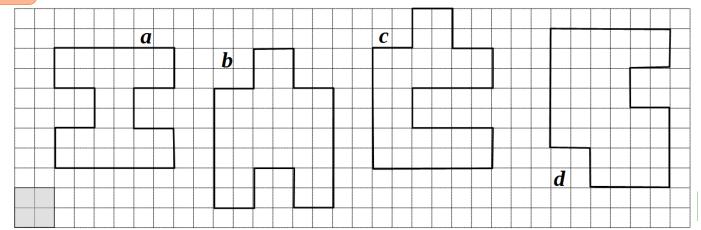
12 times

$$a + a + \dots + a = \underline{\hspace{1cm}} \times$$

b times

z times

What would be the best strategy to count cells in each of the shapes below?



Write your answer below:

REVIEW

Remove parenthesis:

6.

a)
$$a + b - (c + d) =$$

b)
$$(a - b) + (c - d) =$$

c)
$$a - b - (c - d - e) =$$

7.

Calculate using the properties of addition:

$$(37 + 92) + 8 =$$

$$(34+22)+(16+8)=$$

8.

Calculate:

$$10 \times 10 =$$

$$10 \times 10 \times 10 =$$

$$1 \times 1 \times 1 =$$

6.

There are N pencils in the red box and M pencils in the white box. Masha took \boldsymbol{a} pencils from the red box. Monty took \boldsymbol{b} pencils from the white box.

Lesson 17 2017-2018

Revisiting two – dimensional geometric shapes

Triangle: 3 points (vertices) connected by 3 line segments

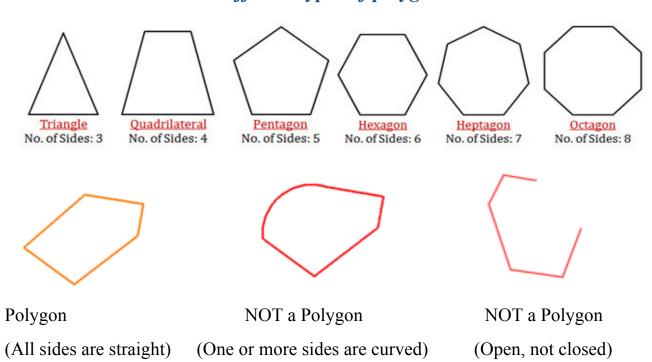
Quadrilateral: 4 vertices, connected by 4 segments

Pentagon (5 vertices), Hexagon (6 vertices), and so on.

All of them are special cases of a **polygon**: a figure consisting of some number of points (**vertices**), connected with line segments to form a closed figure.

These line segments are called the **sides** of the polygon.

Different types of polygon:

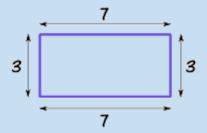


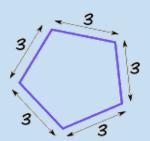
A Perimeter of a polygon is the sum of lengths of its sides.

L = length, W = width, and P = perimeter

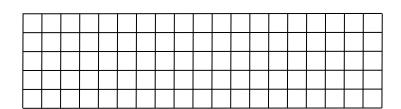
The perimeter of this **rectangle** is 7+3+7+3=20

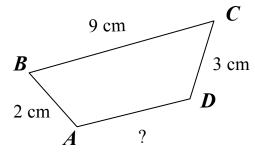
The perimeter of this regular **pentagon is 3+3+3+3+3=5\times 3=15**





7. The perimeter of the quadrilateral ABCD equals 19 cm. What is the length of the side AD?





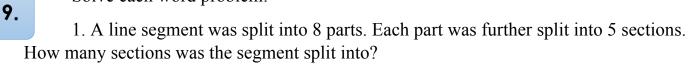
Sallie computes the perimeter of a rectangle by adding the length -l, and width -w, and then doubling this sum.

Eric computes the perimeter of a rectangle by doubling the length -l, doubling the width -w, and then adding the doubled amounts.

- a) Write an expression for Sallie's way of calculating the perimeter. Write an expression for Eric's way as well.
- b) Use both of the expressions to find the perimeter of a rectangle with length 30 and width 75.
- c) Explain why Sallie and Eric always get the same answer, no matter what the length and width of the rectangle are.

Challenge yourself

Solve each word problem:



2. A watermelon can be balanced on a scale by x apples. An apple can be balanced by q strawberries. How many strawberries are needed to balance a watermelon?