

Homework for Lesson № 6

1

Solve the 2-step problems by identifying units' values. Write each step separately together with its meaning (see classwork sample)

A. Granny Rhinoceros baked cookies and laid them evenly on plates. There are 18 cookies on 3 plates. How many cookies are on 7 plates?

1. _____

2. _____

B. Grapes are packed in identical boxes. 8 boxes contain 56 kg of grapes. How much grapes are in 5 boxes?

1. _____

2. _____

C. A snail eats 63 g of leaves in 9 days. How many grams of leaves does the snail eat in a week?

1. _____

2. _____

D. There are 35 liters of juice in 5 identical cans. How many liters of juice in 9 such cans?

1. _____

2. _____

2

Solve equations **in your notebook**, copy your answers here. Make drawings!

$$203 - x = 49$$

$$y + 72 = 841$$

$$42 : w = 6$$

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

$$w = \underline{\hspace{2cm}}$$

3 C is a set of a school's athletes. F is a set of the school's soccer players. B is the set of the school's goal keepers in soccer teams. Draw a Venn Diagram for the sets B , C , and F .

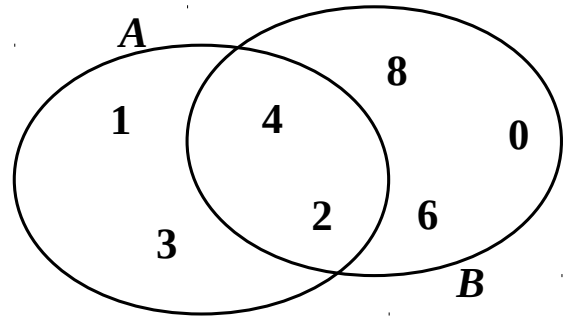
P is a set of animals. Q is a set of predators. R is a set of birds. Draw a Venn Diagram for the sets P , Q , and R .

4 Use $\{ \}$ to list the elements of sets A , B , and their intersection in the increasing order.

$A =$ _____

$B =$ _____

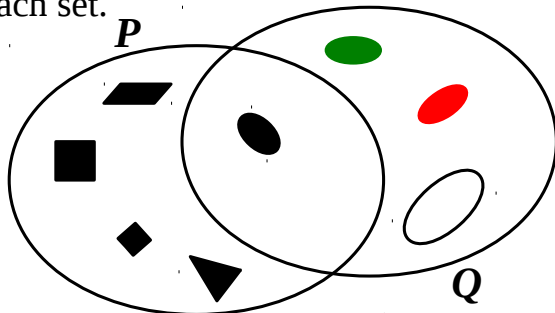
$A \cap B =$ _____



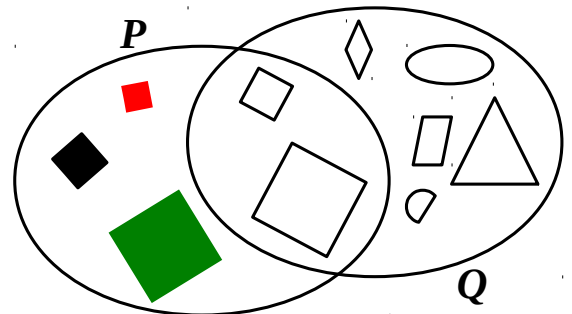
Fill in the blanks using the symbols \in or \notin :

- | | | | |
|--------------|--------------|--------------|--------------|
| <u>1</u> A | <u>4</u> B | <u>8</u> A | <u>0</u> B |
| <u>4</u> A | <u>8</u> B | <u>3</u> B | <u>6</u> B |

5 List the properties that the elements in the intersection of sets P and Q inherit from each set.



1. _____
2. _____



1. _____
2. _____

8 Use a compass to find set of all points that are ...

... 5 cm away from point K

and

... 4 cm away from point M .

K

M

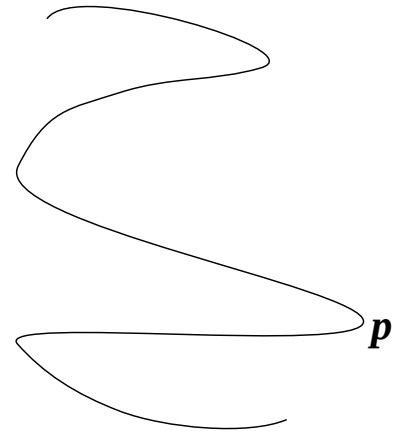
How many points did you find? _____

9 Use a compass to find **all** points of the curve p located 3 cm away from the point X .

How many points did you find? _____

How do we call the set of all points located 3 cm away from the point X ?

X



10 Find set of all points that are ...

... 2 cm away from point A

and

... 2 cm away from point B .

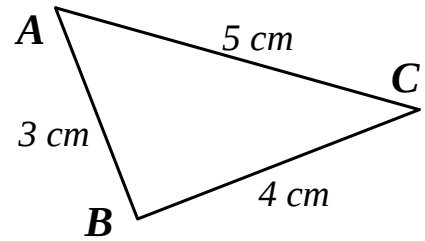
A

B

How many points did you find? _____

What do you think is the reason for that? _____

- 11** The dimensions of the triangle $\triangle ABC$ are labeled on the drawing. List two properties of each of the points A, B, and C in terms of distances.



A:	B:	C:
1. $ AB =$ _____	1. _____	1. _____
2. _____	2. _____	2. _____

* Check \checkmark the TRUE statements; cross mark \times the FALSE statements.

$A \in \text{Circ}(B, 3 \text{ cm})$

$A \in \text{Circ}(C, 3 \text{ cm})$

$A \in \text{Circ}(A, 3 \text{ cm})$

$A \notin \text{Circ}(B, 4 \text{ cm})$

$B \in \text{Circ}(A, 3 \text{ cm}) \cap \text{Circ}(C, 4 \text{ cm})$

$A \notin \text{Circ}(B, 3 \text{ cm}) \cap \text{Circ}(C, 5 \text{ cm})$

$C \notin \text{Circ}(A, 3 \text{ cm}) \cap \text{Circ}(C, 5 \text{ cm})$

$AB \cap BC = \emptyset$

$AC \cap BC \neq \emptyset$

$AB \cap AC \neq \emptyset$

$B \in \text{Circ}(A, 3 \text{ cm}) \cap BC$

$B \in \text{Circ}(A, 5 \text{ cm}) \cap BC$

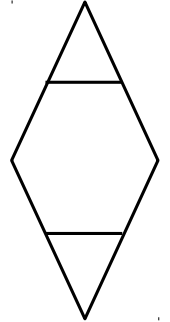
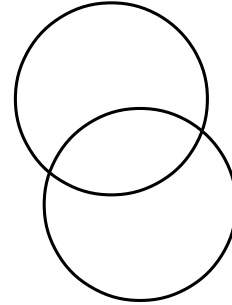
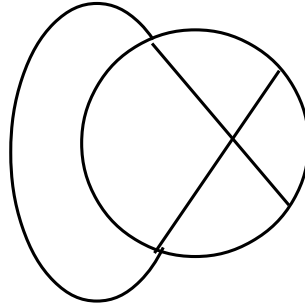
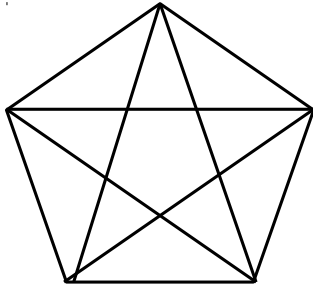
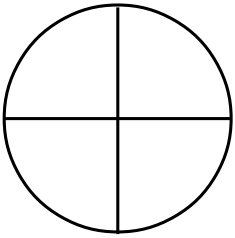
Take your time

Use your imagination

You may use a compass,

but try not to

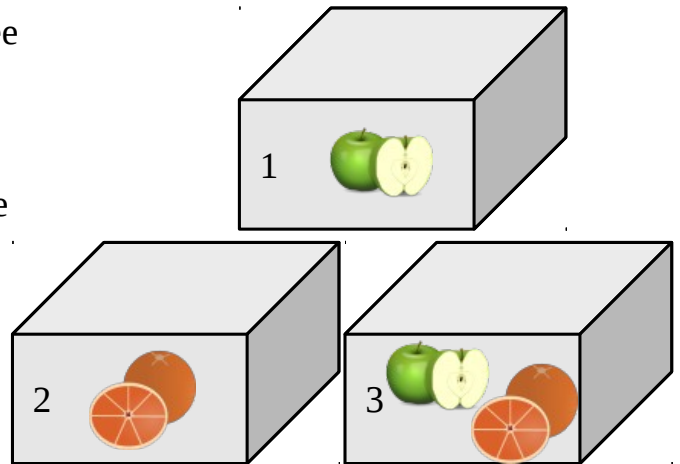
- 12** Try to trace each shape without lifting a pencil or tracing the same edge twice. For each picture state whether it is possible or not.



- 13** Foxy Tail put apples and oranges in three boxes and labeled these boxes. Certainly he placed each label onto a wrong box.

You are allowed to pick just one fruit from one box only to identify the content of each box.

Which box would you choose and why?



I choose the box # _____ because _____

- 14** Who is the fastest: a deer, a fox, a snail, a turtle, and a pig? _____

The turtle is faster than the fox

The pig is slower than the fox

The pig is slower than the snail

The deer is faster than the turtle

The snail is faster than the deer

slow

fast

Is the deer faster than the fox? _____

