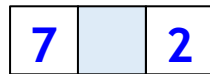
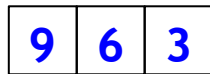


WARM-UP

**1.**

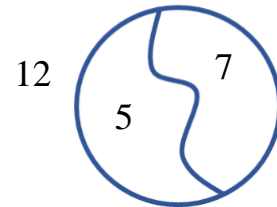
Find the missing number:



**2.**

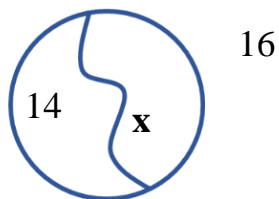
Using a diagram for addition:  $7 + 5 = 12$

Number 12 is a sum; 5 and 7 are parts of the sum or addends. To find one addend you should subtract another one from the sum.

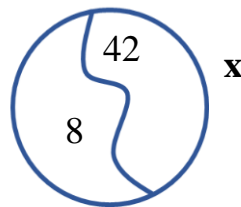


Find  $x$  using a diagram:

$$14 + x = 16$$



$$x - 8 = 42$$



**3**

Both  stand for the same digit. What digit is it?

$$\begin{array}{r}
 2 \square 0 9 \\
 + 1 3 4 \square \\
 \hline
 4 2 5 8
 \end{array}$$

## REVIEW

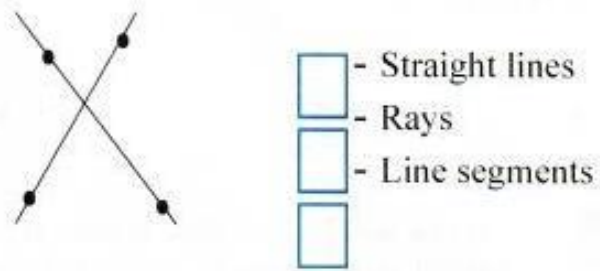
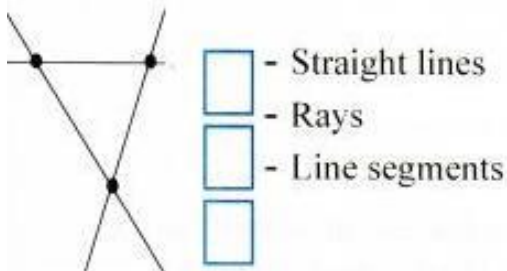
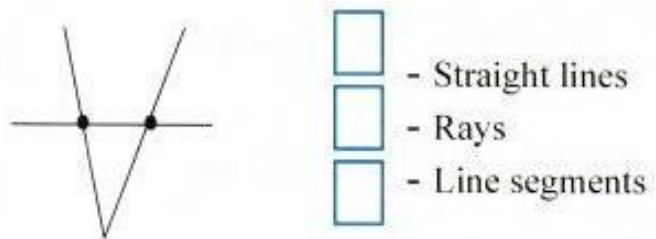
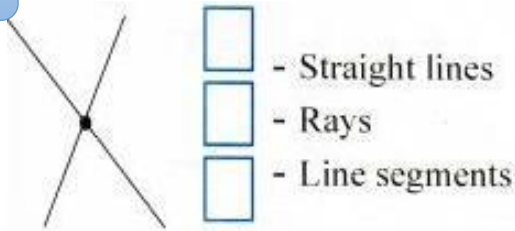
$(AB)$  or  $\overleftrightarrow{AB}$  - straight line through points A and B.

$[AB)$  or  $\overrightarrow{AB}$  - ray AB, starting at the point A and passing through point B

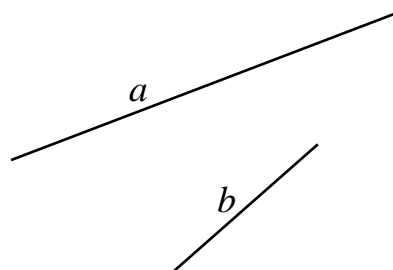
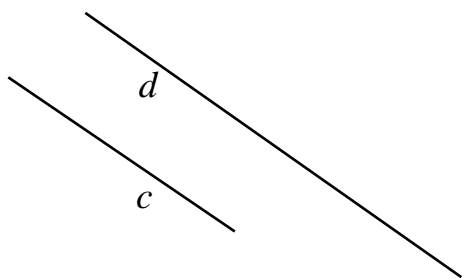
$[\overline{AB}]$  or  $\overline{AB}$  - line segment with endpoints A and B

$AB \parallel CD$  - lines AB and CD are parallel.

**4.** How many straight lines, rays, and line segments can you find in each figure?



**5.** Using a ruler extend lines **a** and **b**. Find and label the intersection points. Which two lines are parallel to each other?



5.

- a) There are 12 girls in the class of 25 students. How many boys are in this class?
  
- b) Jamie picked some number of apples, then she picked 5 more apples. Now she has 12 apples. How many apples did Jamie pick at first?
  
- c) Melinda collects  $x$  stamps. Jimmy collects 12 more stamps than Melinda. How many stamps did Jimmy collect?
  
- d) Nickolas had  $y$  paper clips. He gave 5 paper clips to his sister. How many paperclips does he have left?
  
- e) Each side of the square is  $x$  centimeters. What is the perimeter of the square?
  
- f) Jenny bought  $z$  books \$8 each. How much did she spend? If she had \$100, how much did she have left?

### Place value.

A number is made of one or more digits. The number 683, for example. Is made of the digits 6,8, and 3. The 1<sup>st</sup> digit shows how many hundreds there are. Digit 6 has a value of 6 hundreds, 8 has a value of 8 tens and 3 - 3ones.

The position of a digit in the number is very important, its value depends on it.

100 ones =10 tens = 1 hundred

6.

Calculate:

2 hundreds and 8 tens = 280

3 hundreds, 5 tens and 2 ones = \_\_\_\_\_

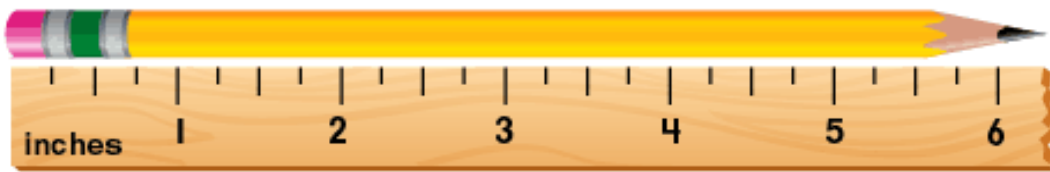
7 hundreds, 0 tens and 8 ones = \_\_\_\_\_

5 hundreds, 9 tens and 0 ones = \_\_\_\_\_

NEW MATERIAL

7.

Examine your ruler. Notice that it has markings on both sides.



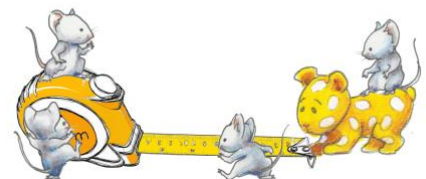
1 Inch



1 centimeter

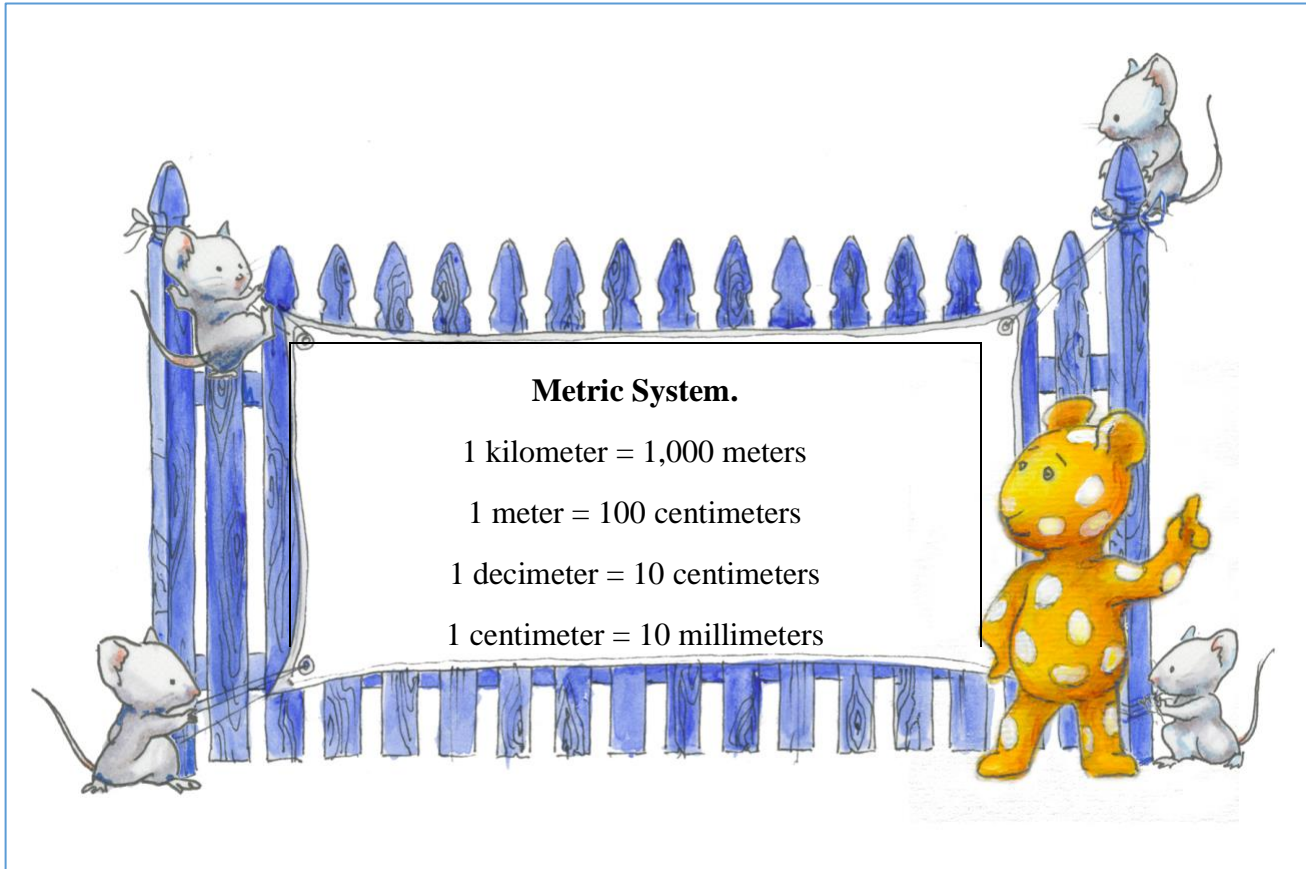
8.

Measure a friend's left foot using paper, a pencil, and a ruler. Record the results in inches and cm.



9. Using your ruler draw a ray starting at point A. Place three points B, C and D on the ray so that  $[AB] = 5$  centimeters,  $[AC] = 3$  centimeters and  $[AD] = 7$  centimeters. Find the length of the segments  $[CB]$ ,  $[BD]$  and  $[CD]$ .

$[CB] =$  \_\_\_\_\_ cm     $[BD] =$  \_\_\_\_\_ cm     $[CD] =$  \_\_\_\_\_ cm



10. Convert using examples:

$$120 \text{ cm} = 1\text{m} + 20 \text{ cm}$$

$$2 \text{ m} = 200 \text{ cm} = 20 \text{ dm}$$

$$3 \text{ dm} = 30 \text{ cm}$$

$$208 \text{ cm} = \underline{\hspace{2cm}}$$

$$5 \text{ m} = \underline{\hspace{2cm}}$$

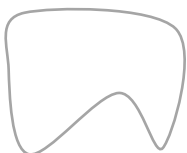
$$21\text{dm} = \underline{\hspace{2cm}}$$

$$333 \text{ cm} = \underline{\hspace{2cm}}$$

$$3 \text{ m} = \underline{\hspace{2cm}}$$

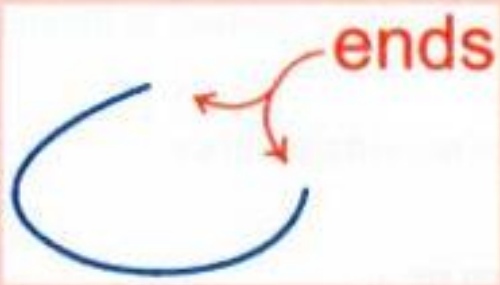
$$40 \text{ dm} = \underline{\hspace{2cm}}$$

11. Take a look at the picture below. What is the difference between two curved lines you see here?



Curves can be “open” and “closed”.

Open curve is a curve with end points (in other words, the ends don't join up).

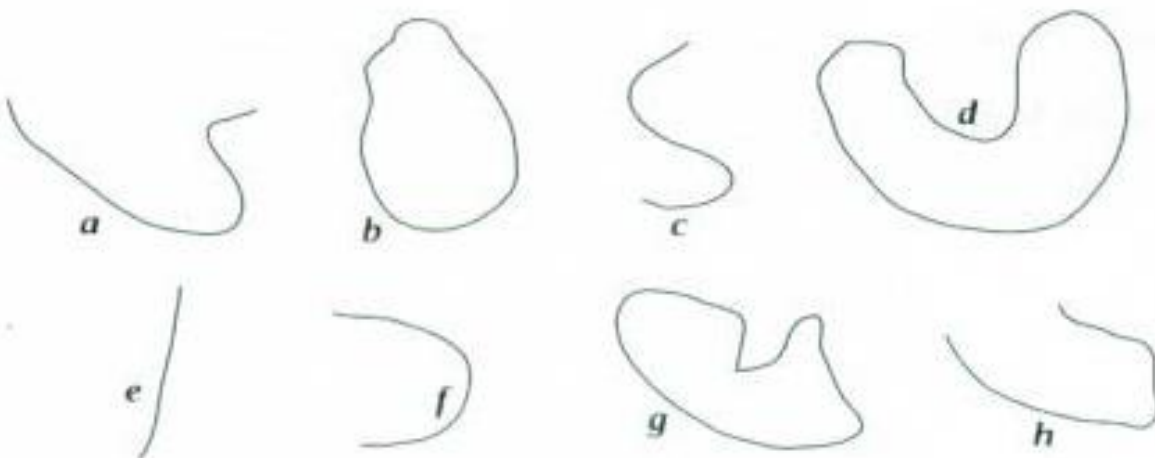


Close curve has no end points.



9. Find all closed curves on the picture below. List them here \_\_\_\_\_

Now, using your pencil turn all open curves into closed ones.



**10.** Amanda, Joe, Alex and Zara each have different color cars - red, blue, white and black. Using the hints below, determine who has which car?

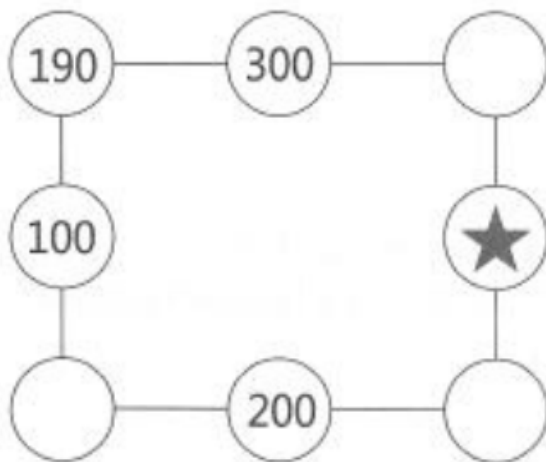
- a) Amanda's car is not red or white
- b) Joe's car is not blue or white.
- c) Alex's car is not black or blue.
- d) Zara's car is red.

**11.** Bill, John, Fred, and Jim are married to one of Mrs. Brown, Mrs. Green, Mrs. Black and Mrs. White.

- a) Mrs. Brown's husband first name does not begin with J.
- b) Mrs. Black's husband has a name that does not have the same letter twice
- c) The first name of Mrs. White's husband has 3 letters.

### Challenge yourself

**12.** The numbers on each side of the rectangle add up to 1000. What number does the star stand for?



**13.**

The sum of the numbers on each line is 17.

Fill in the empty circles using numbers 1,2,3,4,5,6,7. Each number can be used only once.

