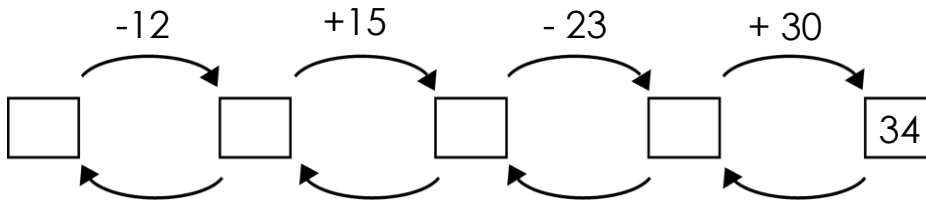


Lesson 9

Angle. Centimeter, decimeter, meter

1

"I think of a number" game with Little Joe. LJ thought of a number. He subtracted 12, added 15, subtracted 23, added 30, and got 34. What was the number LJ think of?



2

Which is the biggest waterfall in the world? Where is it?

12	89	53	62	55	80	89	44

$\begin{array}{r} 71 \\ + 18 \\ \hline \end{array}$	$\begin{array}{r} 71 \\ - 18 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ + 9 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ + 34 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ - 34 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ + 18 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ - 18 \\ \hline \end{array}$
I	C	T	A	R	V	O	E

3

In your notebook, solve the equations and write you solutions similarly to the example. Copy your answers here. Make drawings if needed.

$$x - 12 = 56$$

$$x =$$

$$39 - y = 17$$

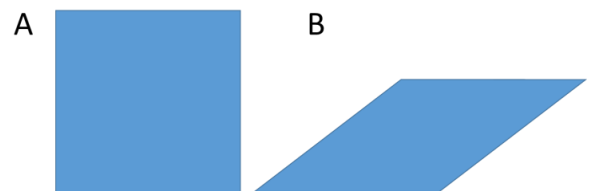
$$y =$$

$$z - 34 = 66$$

$$z =$$

4

Take a look at two polygons A and B. Do they have the same number of vertices? Are they have the same number of sides? Are those sides equal (you can use the ruler)?

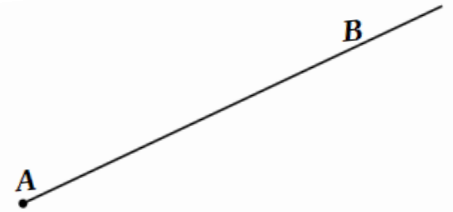


What is the difference between these two polygons?

Angles.

Using a ruler, plot another ray originating from point **A**. Name it ray **[AC]**. Find the smallest part of the plane limited by the two rays, shade it with a pencil.

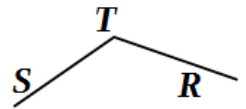
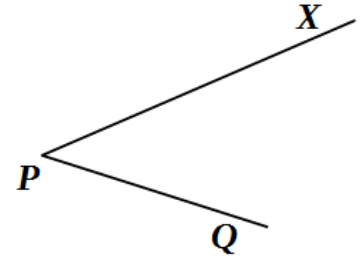
An angle is formed by two rays with a common endpoint. Point **A** is the vertex of the angle. Rays **AB** and **AC** are the sides of the angle. The name of the angle is **BAC** (the vertex in the middle).



How can we compare angles?

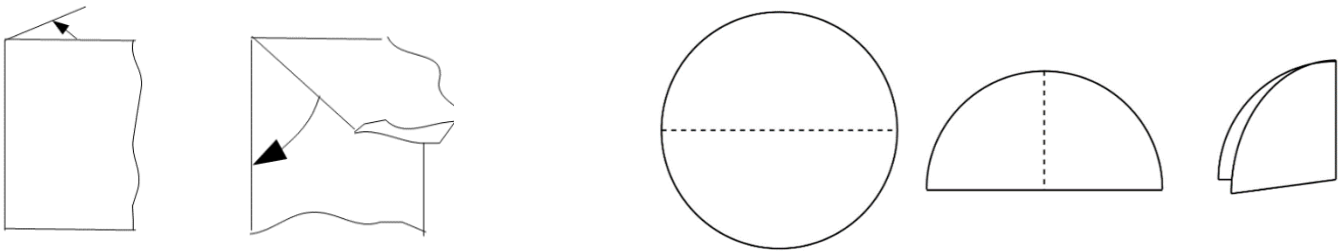
Pop Eye decided to draw an angle. He plotted angle **∠STR**. Jake the Mouse decided to plot a bigger angle and plotted angle **∠QPX**.

Who did plot a bigger angle? Can we compare angles by comparing the length of its sides? What if we use some standard measure and compare other angles to it?



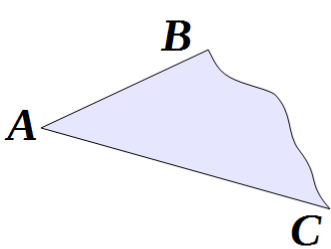
If we fold a regular sheet of paper or a circle in two and again in two, then we will obtain a right angle. Two straight lines forming a right angle are called **perpendicular lines**.

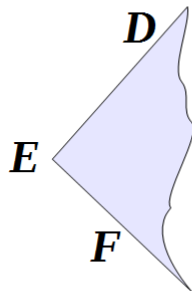
Let's make our right-angle template and start to compare angles.

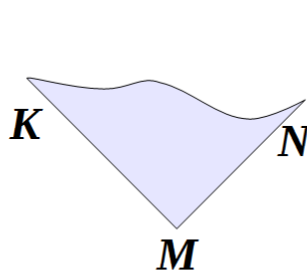


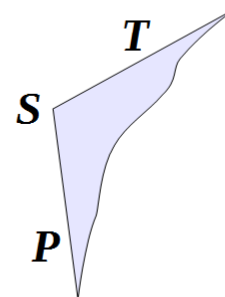
5

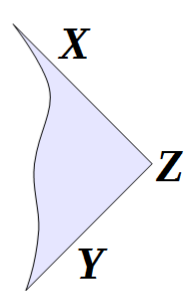
Name the angles and find the right angles using a right-angle template.





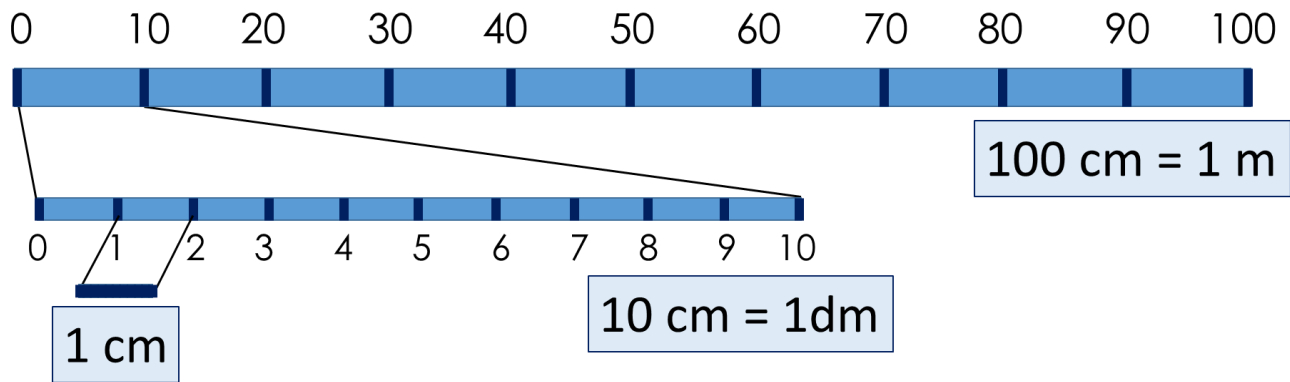






Centimeter, decimeter, meter

100 centimeters = 10 decimeters = 1 meter



6 Fill in the table:

2 m = 20 dm = 200 cm	5 m = dm = cm
6 m = dm = cm	7 m = dm = cm
4 m = dm = cm	9 m = dm = cm
8 m = dm = cm	3 m = dm = cm

7 Convert:

20 cm = ____ dm

40 cm = ____ dm

3 dm = ____ cm

5 dm = ____ cm

8 dm = ____ cm

100 cm = ____ m

30 dm = ____ m

11 cm = ____ dm ____ cm

23 cm = ____ dm ____ cm

4 dm 3 cm = ____ cm

2 dm 8 cm = ____ cm

1m 5 dm = ____ cm

8

Foxy Tail wants to put a mouse-sized piano by a wall in his bedroom. The piano is 4 dm 3 cm long. Jake the Mouse wants to put a desk by the same wall. The desk is 23 cm long. Will the brothers be able to put both items by the wall which is 7 dm long?

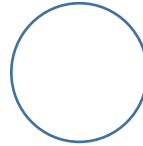


9

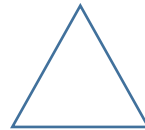
Arrange the sets appropriately:



- Animals



- White animals



- Polar bears

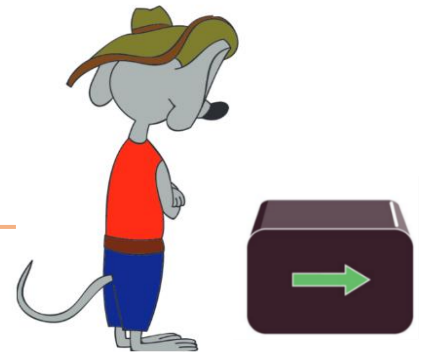
10

Check ✓ the TRUE statements; cross mark ✗ the False statements.

- ☐ All white animals are animals.
- ☐ All animals are white.
- ☐ All polar bears are white.
- ☐ All white animals are polar bears.
- ☐ All polar bears are animals.

11

"Black Box" game with Jake the Mouse.



1. 12 → 21

2. 33 → 33

3. 49 → 94

4. 8 → 8

5. 51 → 15

6. 123 → 321

