

The difference between 200 and 48_____

Angles, Notations, Sets

NEW MATERIAL



An **angle** is a figure formed by two rays sharing a common end point (vertex).

Every angle divides the plane into two regions: points inside the angle (that is, between the rays) and points outside the angle.



If the vertex of the angle is point A and the two sides are rays AB and AC, then the angle is denoted $\angle BAC$ or simply $\angle A$

The word angle comes from the Latin word angulus, meaning "a corner."



Making a Right Angle Template.

6.

Fold a sheet of paper in half and then in half again. Using a ruler trace the creases with a pencil. How many straight lines did you get? How many angles do these lines form?

Note the right angle. 90° special symbol in the angle. If we see this box, it is a The 90° is rarely written in.

All the angles below are right angles. Use your right angle template to check it.



Find examples of right angles in a classroom.

Special quadrilaterals:

Rectangle: a quadrilateral in which all four angles are right angles.

Square: a quadrilateral in which all 4 angles are right angles, and all 4 sides are of equal length.



7.

There are 3 squares – big, medium and small and 3 circles – big, medium and small. Circle **A** is a small circle. Find all shapes which are different from shape A by only one property (shape or size).





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Challenge yourself

A school divided 75 students into three teams. The first team has 25 students, the second one has 24 students. How many students are on the third team?

13.

12.

Donny and Andrew wanted to buy a book. Donny was \$7 short, while Andrew was just \$1 short. They decided to combine their money and buy one book for the both of them. After they combined their money, however, they still didn't have enough to buy the book. How much money each boy had in the beginning given that they did not have any coins?

14.

Sam has a rope 1m and 60 cm long. How can he cut it to get an 80 cm piece and a 40 cm piece without any measuring tools?