Name_____ Date_____

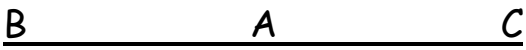
Constructing Angles

Reading and Discussion

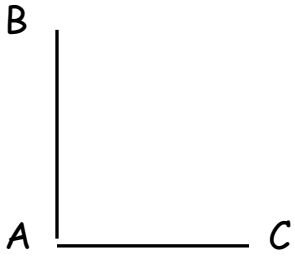
An angle is the place where 2 lines cross each other. Angles are everywhere! For example, there is an angle between the wall and the floor, and between your leg and your foot. How many angles can you find in the classroom?

When we measure lengths we use a ruler and measure in units of length such as centimeters. When we measure weights we use a scale and measure in units of weight such as grams. The units we use for measuring angles are called **degrees** and we use a **protractor** to measure them.

Have a look at your protractor. Right in the middle of the lowest line on the protractor is the **vertex** point. The numbers around the edge of the protractor are the **scales**; there is an outside scale and an inside scale. Both scales have a zero line and are marked in tens from 0 degrees to 180 degrees. What do you think we would call an angle which measures exactly 180 degrees? Yes, a straight line, or a **straight angle**. If you place the protractor on a straight line with the vertex point (A) in the centre it will measure from 0 to 180 degrees.



Now let's construct a right angle. A right angle is exactly half of a straight angle – that is 90 degrees. Mark the vertex point on a straight line – let's call it A again. Now make another pencil mark at 90 degrees, right at the top of your protractor. Let's call that B. The other end of the straight line can be called C. Use your ruler to draw a line from the vertex point to the 90 degree mark. The angle you have drawn is a right angle. The name of the angle is angle A, angle BAC, or angle CAB.



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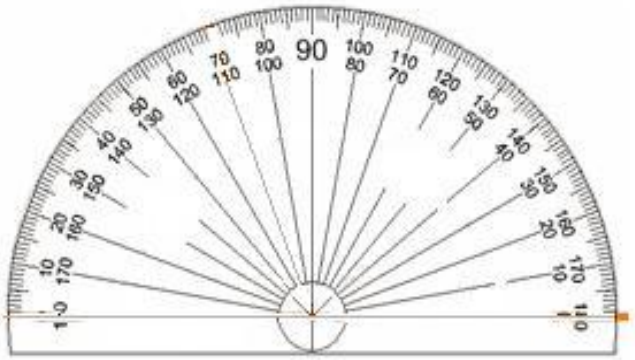
Activities

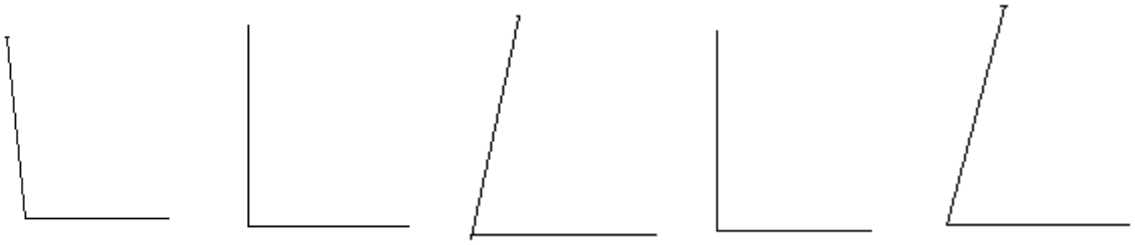
A: Know your protractor.

Here is a protractor. Label it by drawing lines to show the vertex, the scales, 90 degrees, and 180 degrees on the outside scale.



B: Which angle is 90 degrees?

Here are five angles. Use your protractor to measure them and put a tick in the box below the right angles.



Now draw some 90 degree angles of your own.

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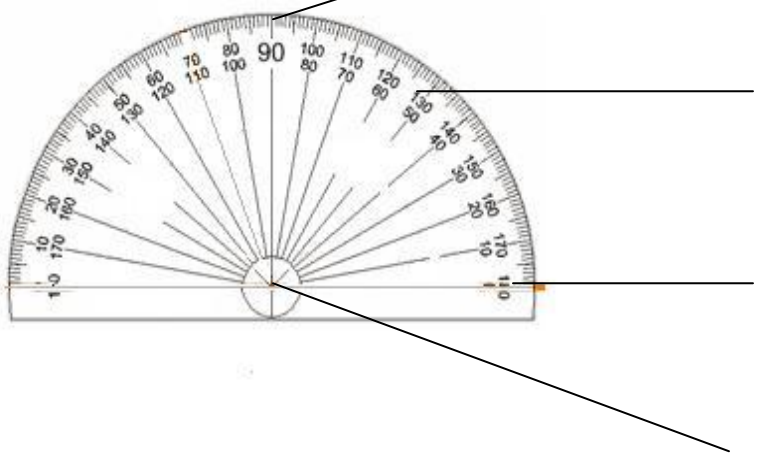
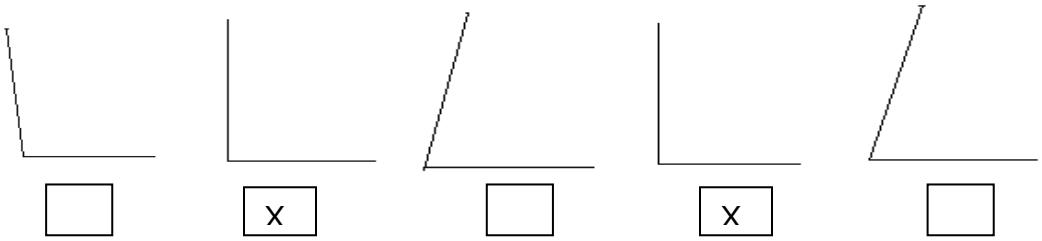
Answer Sheet

Activity A



Activity B



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