

NAME _____



Set C3 ★ Independent Worksheet 1

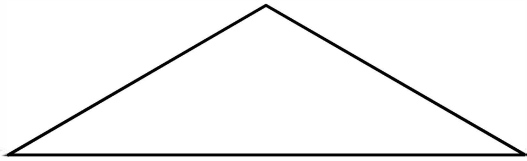


INDEPENDENT WORKSHEET

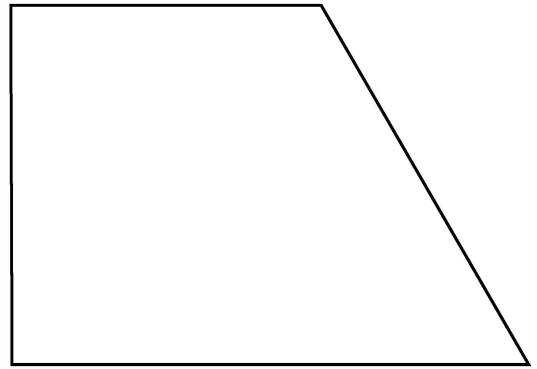
Measuring Interior Angles of Polygons

Use your pattern blocks to measure the interior angles of each polygon below. Label each angle with its measurement. Then write the name of the polygon.

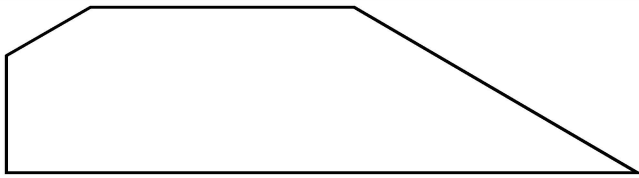
1 _____



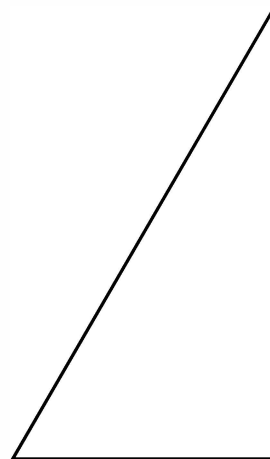
2 _____



3 _____



4 _____



Set C3 ★ Independent Worksheet 2

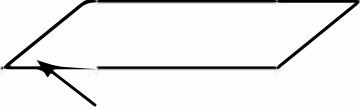


INDEPENDENT WORKSHEET

Angles in the Classroom

Search your classroom for objects with the angles described below. Complete the chart by sketching each object, labeling it, and drawing an arrow to the angle that is less than, equal to, or greater than the benchmark angle. Use pattern blocks to help.

1 Benchmark Angle: 90°

Less than 90°	Equal to 90°	Greater than 90°
 <p>This angle on the side of my eraser.</p>		

2 Benchmark Angle: 60°

Less than 60°	About Equal to 60°	Greater than 60°

3 Benchmark Angle: 180°

Less than 180°	Equal to 180°	Greater than 180°

Set C3 ★ Independent Worksheet 3



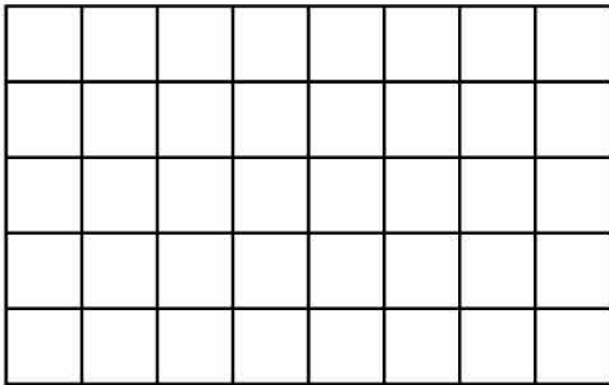
INDEPENDENT WORKSHEET

Drawing Polygons

Use a ruler and pattern blocks to draw a polygon that fits each description. Each square on the grid is 1 cm by 1 cm.

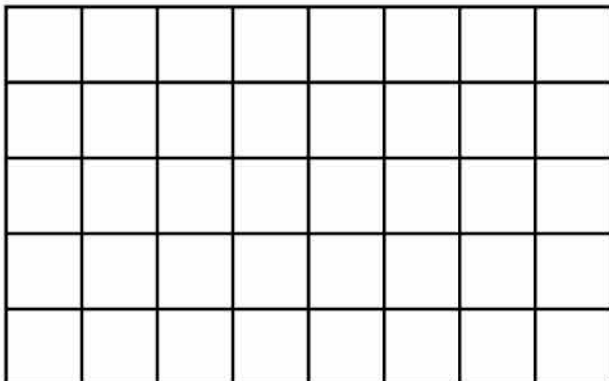
1a A rectangle that is 2.5 cm by 5.5 cm

b Label each angle and side length in the rectangle below.



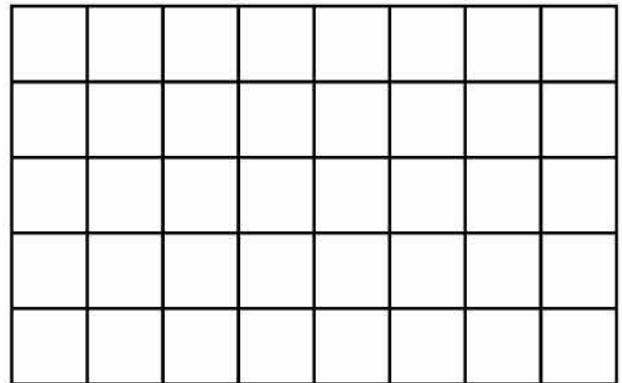
3a A trapezoid with one side exactly 2.5 cm, another side 3 cm, and angles 90° , 90° , 120° and 60°

b Label each angle and side length in the trapezoid below.



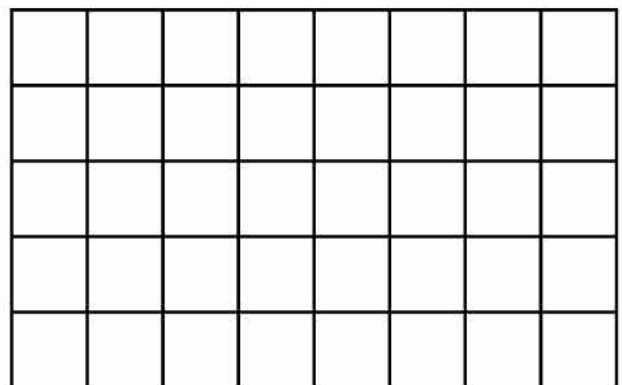
2a An equilateral triangle with sides that are each 3 cm

b Label each angle and side length in the triangle below.



4a A rhombus with all sides 3.5 cm, two 60° angles, and two 120° angles

b Label each angle and side length in the rhombus below.

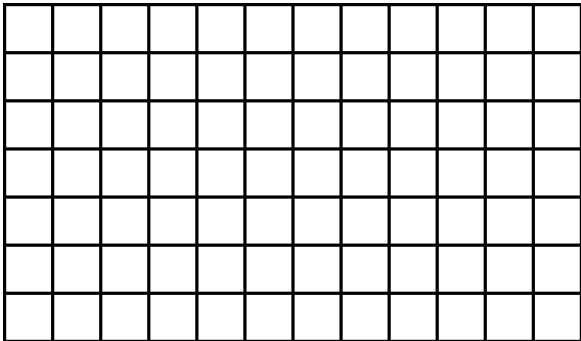


Drawing Polygons (cont.)

Use a ruler and pattern blocks to draw a polygon that fits each description. Each square on the grid is a quarter inch by a quarter inch.

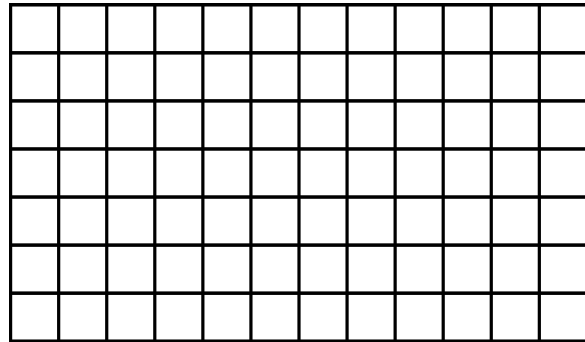
5a A rectangle that is $1\frac{1}{2}$ in. by $2\frac{1}{4}$ in.

b Label each angle and side length in the rectangle below.



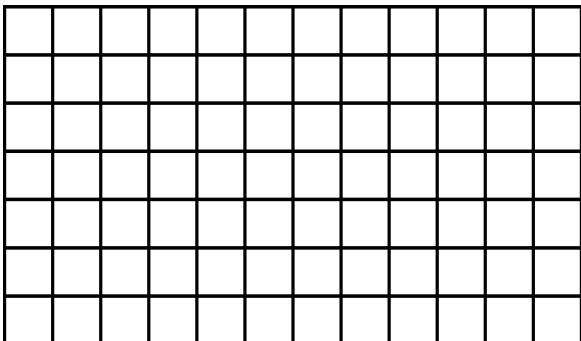
6a An isosceles triangle with two 30° angles

b Label each angle and side length in the triangle below.



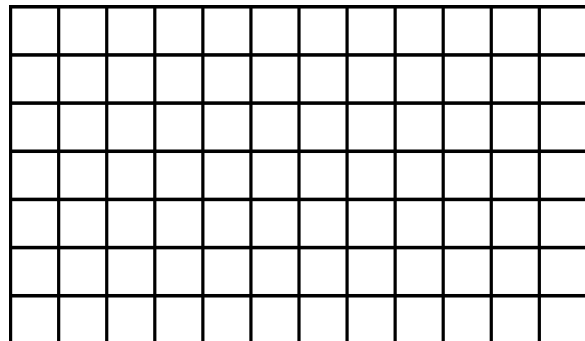
7a A trapezoid with one side exactly 2 in., another side exactly 1 in., and two 60° angles

b Label each angle and side length in the trapezoid below.



8a A rhombus with two 120° angles

b Label each angle and side length in the rhombus below.



Set C3 ★ Independent Worksheet 4

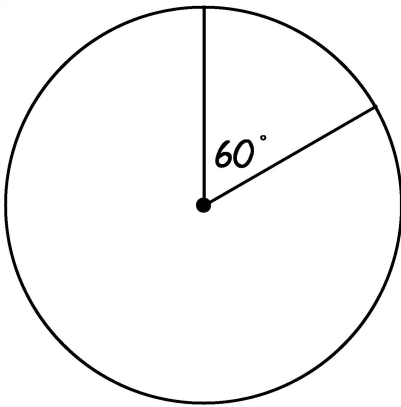


INDEPENDENT WORKSHEET

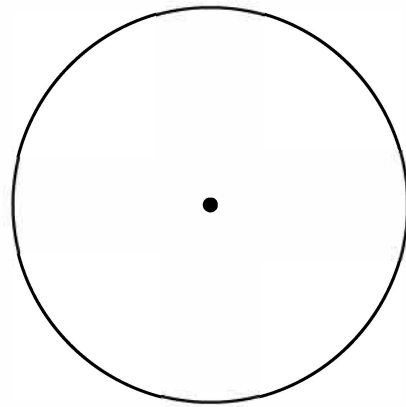
Drawing Angles of Rotation

Draw and label the angles that are equal to each fraction of a whole turn around the circle. Use your pattern blocks to make the angles exact. Remember that there are 360 degrees in a full turn around the circle.

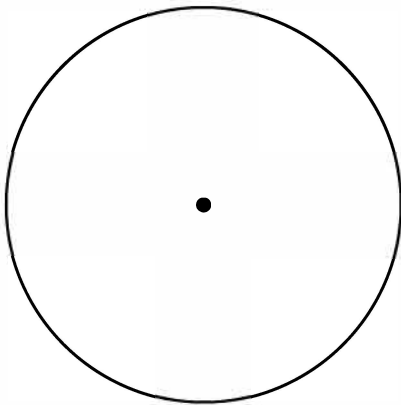
ex Draw and label $\frac{1}{6}$ turn.



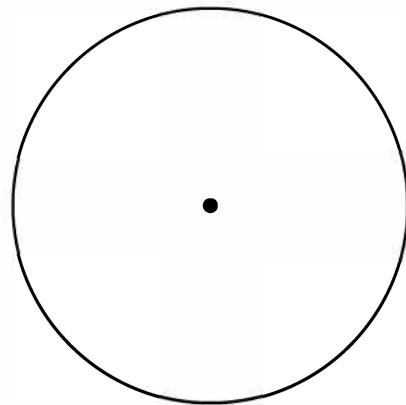
1 Draw and label $\frac{1}{2}$ turn.



2 Draw and label $\frac{1}{4}$ turn.



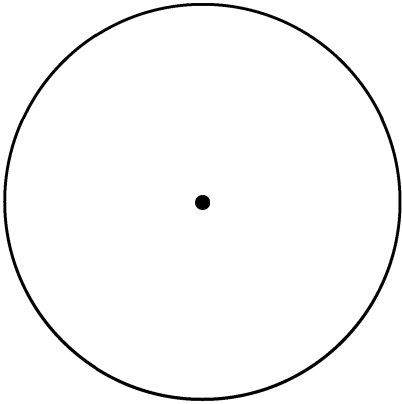
3 Draw and label $\frac{3}{4}$ turn.



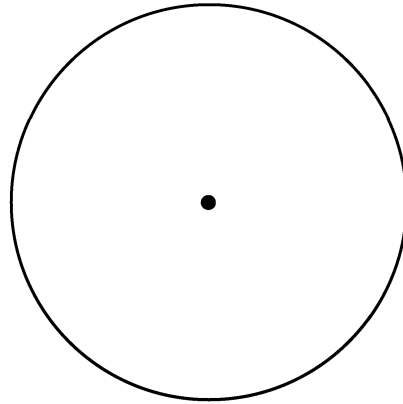
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Drawing Angles of Rotation (cont.)

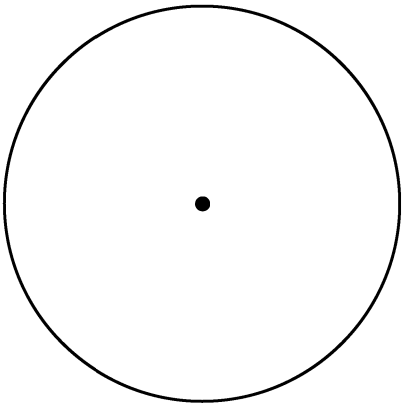
4 Draw and label $\frac{1}{3}$ turn.



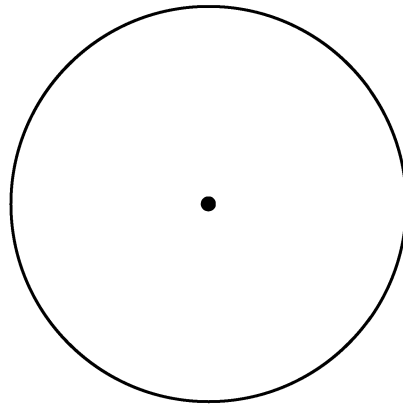
5 Draw and label $\frac{2}{3}$ turn.



6 Draw and label $\frac{5}{6}$ turn.



7 Draw and label $\frac{5}{12}$ turn.



Set C3 ★ Independent Worksheet 5

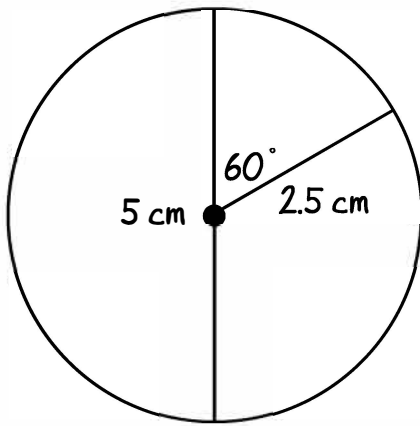


INDEPENDENT WORKSHEET

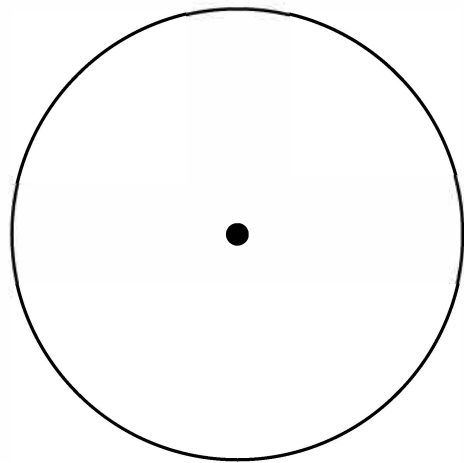
Drawing & Measuring Circles

Draw, measure, and label the radius and diameter of each circle below. Use the centimeter side of your ruler, and measure to the nearest millimeter if necessary. Use your pattern blocks to draw each radius at the given angle from the diameter.

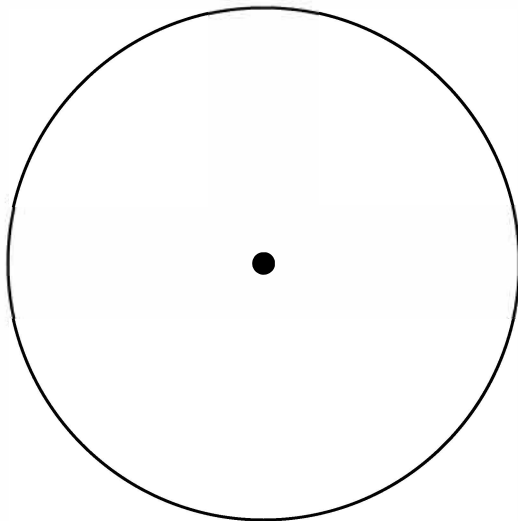
ex Draw the radius at a 60° angle to the diameter.



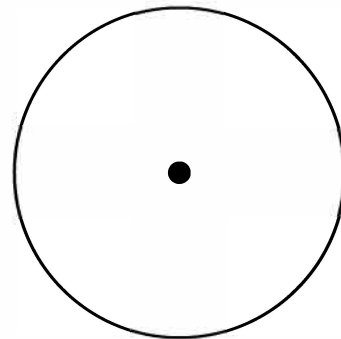
1 Draw the radius at a 30° angle to the diameter.



2 Draw the radius at a 90° angle to the diameter.



3 Draw the radius at a 120° angle to the diameter.



Set C3 ★ Independent Worksheet 6

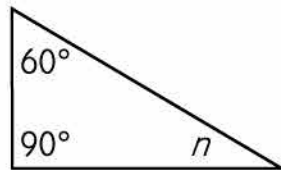


INDEPENDENT WORKSHEET

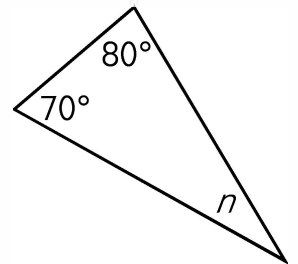
Find the Angle Measure

1 The sum of the angle measures in a triangle is 180 degrees. Below are 4 triangles, each with a missing angle measure labeled n . For each one, choose the value of n .

- a**
- 20 degrees
 - 30 degrees
 - 50 degrees
 - 60 degrees



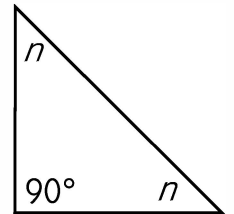
- b**
- 10 degrees
 - 20 degrees
 - 30 degrees
 - 40 degrees



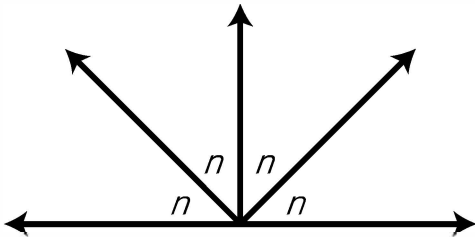
- c**
- 130 degrees
 - 140 degrees
 - 150 degrees
 - 160 degrees



- d**
- 30 degrees
 - 45 degrees
 - 50 degrees
 - 60 degrees



2a The 4 angles marked n below are congruent and have been put together to form a straight angle. Using sketches, numbers, and words, determine the value of each angle marked n . Show your work below.



- b** The value of each angle marked n is _____ degrees.