Angles and Fractional Parts of a Circle



Tell what fraction of the circle the shaded angle represents.



Lesson II.2 Reteach

Degrees



Tell the measure of the angle in degrees.



Measure and Draw Angles



Use a protractor to find the angle measure.



Use a protractor to draw the angle.

3. 110°



m∠*KMN* _____

4. 55°

2.

Join and Separate Angles



Add to find the measure of the angle. Write an equation to record your work.





3.

m∠*PRT* = _____

Use a protractor and the art at the right.

- **4.** Find the measure of each angle. Label each angle with its measure.
- **5.** Write the sum of the angle measures as an equation.



Problem Solving • Unknown Angle Measures

Use the strategy draw a diagram.

Mrs. Allen is cutting a piece of wood for a set for the school play. She needs a piece of wood with a 60° angle. After the cut, what is the angle measure of the part left over?



Read the Problem		
What do I need to find? I need to find <u>the angle</u> <u>measure of the part left</u>	What information do I need to use? I can use the angle measures I know: m / MNP = 60° and	How will I use the information? I can draw a bar model to find the unknown angle
over, or m∠PNR	$\frac{m \ge MNR}{m \ge MNR} = 110^{\circ}$	measure, or m∠PNR
I can <u>draw a bar model to represent the problem</u> Then I can <u>write an equation to solve the problem</u>		
$m \angle MNP + m \angle PNR = m \angle MNR$ $\underline{60^{\circ}} + x = \underline{110^{\circ}}$ $x = \underline{110^{\circ}} - \underline{60^{\circ}}, \text{ or } \underline{50^{\circ}}$ 110°		110°
So, m $\angle PNR = \underline{50^{\circ}}$. The angle measure of the part left over is $\underline{50^{\circ}}$.		

- Cal is cutting a rectangular board as shown. What is the angle measure of the part left over?
- 2. What equation did you use to solve?

