Join and Separate Angles

The measure of an angle equals the sum of the measures of its parts.

Use your protractor and the angles at the right.

Step 1 Measure $\angle ABC$ and $\angle CBD$. Record the measures.

$$m\angle ABC = \underline{35^{\circ}}$$
; $m\angle CBD = \underline{40^{\circ}}$

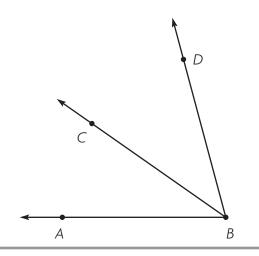
Step 2 Find the sum of the measures.

$$35^{\circ} + 40^{\circ} = 75^{\circ}$$

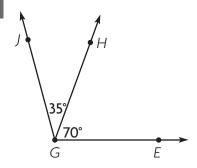
Step 3 Measure $\angle ABD$. Record the measure.

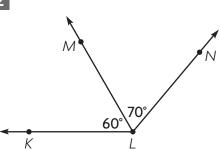
$$m\angle ABD = _{5}^{\circ}$$

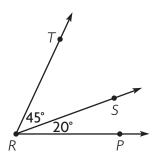
So,
$$m \angle ABC + m \angle CBD = m \angle ABD$$
.



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







$$m\angle \textit{EGJ} = \underline{\qquad} m\angle \textit{KLN} = \underline{\qquad}$$

Use a protractor and the art at the right.

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

