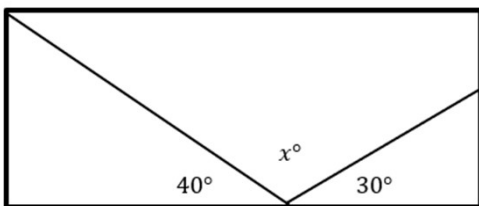


## Angle Word Problems Worksheets

Write and solve an equation in each of the problems.

1. Jaxon is creating a mosaic design on a rectangular table. He has added two pieces to one of the corners. The first piece has an angle measuring  $38^\circ$  and is placed in the corner. A second piece has an angle measuring  $27^\circ$  and is also placed in the corner. Draw a diagram to model the situation. Then, write an equation, and use it to determine the measure of the unknown angle in a third piece that could be added to the corner of the table.

2. Alejandro is repairing a stained glass window. He needs to take it apart to repair it. Before taking it apart, he makes a sketch with angle measures to put it back together. Write an equation, and use it to determine the measure of the unknown angle.

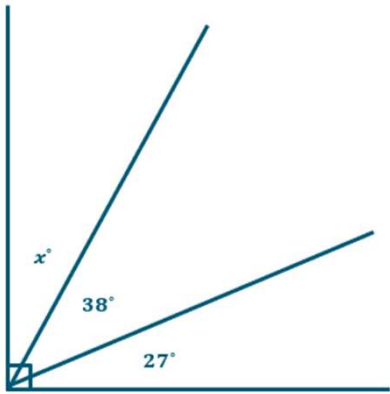


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$$x^\circ + 38^\circ + 27^\circ = 90^\circ$$

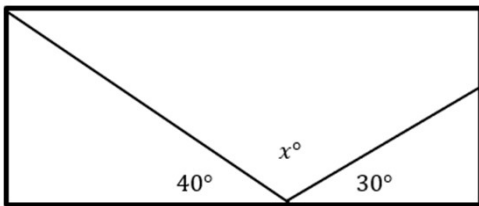
$$x^\circ + 65^\circ = 90^\circ$$

$$x^\circ + 65^\circ - 65^\circ = 90^\circ - 65^\circ$$

$$x^\circ = 25^\circ$$

*The measure of the unknown angle is  $25^\circ$ .*

2. Alejandro is repairing a stained glass window. He needs to take it apart to repair it. Before taking it apart, he makes a sketch with angle measures to put it back together. Write an equation, and use it to determine the measure of the unknown angle.



$$40^\circ + x^\circ + 30^\circ = 180^\circ$$

$$x^\circ + 40^\circ + 30^\circ = 180^\circ$$

$$x^\circ + 70^\circ = 180^\circ$$

$$x^\circ + 70^\circ - 70^\circ = 180^\circ - 70^\circ$$

$$x^\circ = 110^\circ$$

*The missing angle measures  $110^\circ$ .*