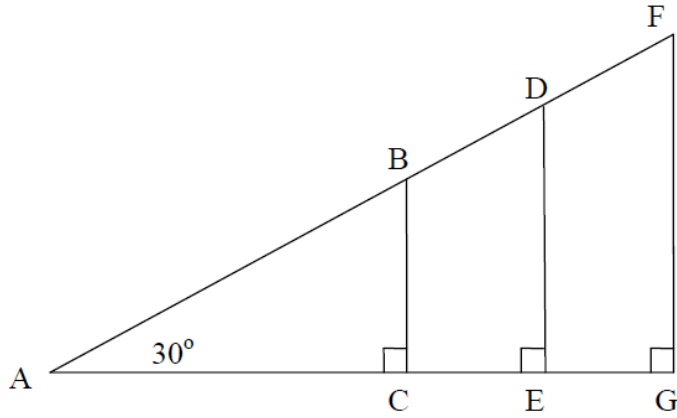


Part 2

You have been given three similar right-angle triangles; $\triangle ABC$, $\triangle ADE$, and $\triangle AFG$. In this case they all share the base angle of 30° . Measure the sides of the three triangles and record the information. Also calculate the three ratios identified in the last three columns.

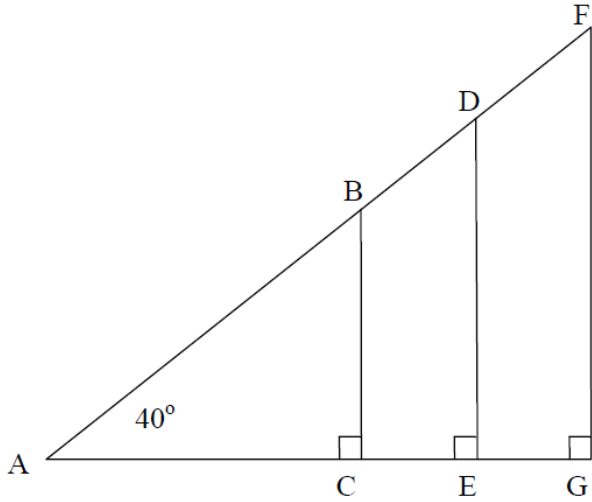


Triangle (30°)	Opposite	Adjacent	Hypotenuse	$\frac{\text{Opposite}}{\text{Hypotenuse}}$	$\frac{\text{Adjacent}}{\text{Hypotenuse}}$	$\frac{\text{Opposite}}{\text{Adjacent}}$
$\triangle ABC$						
$\triangle ADE$						
$\triangle AFG$						

What pattern or patterns do you see? Did you see similar patterns in Part 1?

Part 3

You have been given three similar right-angle triangles; $\triangle ABC$, $\triangle ADE$, and $\triangle AFG$. In this case they all share the base angle of 40° . Measure the sides of the three triangles and record the information. Also calculate the three ratios identified in the last three columns.

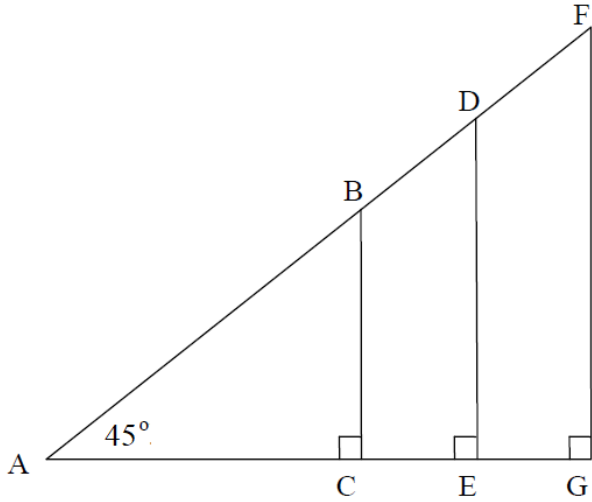


Triangle (40°)	Opposite	Adjacent	Hypotenuse	$\frac{\text{Opposite}}{\text{Hypotenuse}}$	$\frac{\text{Adjacent}}{\text{Hypotenuse}}$	$\frac{\text{Opposite}}{\text{Adjacent}}$
$\triangle ABC$						
$\triangle ADE$						
$\triangle AFG$						

What pattern or patterns do you see? Did you see similar patterns in Parts 1 and 2?

Part 3

You have been given three similar right-angle triangles; $\triangle ABC$, $\triangle ADE$, and $\triangle AFG$. In this case they all share the base angle of 45° . Measure the sides of the three triangles and record the information. Also calculate the three ratios identified in the last three columns.



Triangle 45°	Opposite	Adjacent	Hypotenuse	$\frac{\text{Opposite}}{\text{Hypotenuse}}$	$\frac{\text{Adjacent}}{\text{Hypotenuse}}$	$\frac{\text{Opposite}}{\text{Adjacent}}$
$\triangle ABC$						
$\triangle ADE$						
$\triangle AFG$						

What pattern or patterns do you see? Did you see similar patterns in Parts 1 and 2?