Given above is a right triangle named △ TEH. Assume that $\overline{EB}$ is the altitude to the hypotenuse $\overline{TH}$. Complete the table below.

Triangle	**Right Angles**	**Hypotenuse**	**Acute Angles**	**Shorter Leg**	**Longer Leg**
△ TEH	∠TEH	$\overline{TH}$			
△ EBT					
△ EBH					

Using the rule of similarity on right triangles, complete the following ratios below represented by their line segments.

$\triangle$ TEH~ $\triangle$ EBT → $\frac{\overline{EB}}{\overline{BT}} = ?$

$\triangle$ TEH~ $\triangle$ EBH → $\frac{\overline{EH}}{\overline{TH}} = ?$

$\triangle$ EBH~ $\triangle$ EBT → $\frac{\overline{TH}}{\overline{ET}} = ?$

Answer the following questions to satisfy the conditions of the similarity on right triangles.

1. If $c = 3$ and $n = 12$, find *b.*
2. If $c = 6$ and $n = 18$, find *y.*
3. If $n = 8$ and $c = 6$, find *a.*