



Math worksheet on 'Trigonometry - Side Length Ratios from Diagrams (Level 1)'. Part of a broader unit on 'Trigonometry - Solving Triangles'

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**2**

Solve for the side length in ratio form

<b>a</b>	$b = \cos(A) \times 6.9$
<b>b</b>	$b = \frac{\cos(A)}{6.9}$
<b>c</b>	$b = \cos(A) \times 12$
<b>d</b>	$b = \frac{\cos(A)}{12}$
<b>e</b>	$b = \frac{12}{\cos(A)}$
<b>f</b>	$b = \frac{6.9}{\cos(A)}$

**1**

Solve for the side length in ratio form

<b>a</b>	$b = \frac{\tan(A)}{6.9}$
<b>b</b>	$b = \frac{6.9}{\tan(A)}$
<b>c</b>	$b = \frac{\tan(A)}{3.5}$
<b>d</b>	$b = \tan(A) \times 6.9$
<b>e</b>	$b = \frac{3.5}{\tan(A)}$
<b>f</b>	$b = \tan(A) \times 6$

**3**

Solve for the side length in ratio form

<b>a</b>	$b = \frac{\sin(A)}{2.1}$
<b>b</b>	$b = \frac{2.1}{\sin(A)}$
<b>c</b>	$b = \sin(A) \times 2.1$
<b>d</b>	$b = \frac{3}{\sin(A)}$
<b>e</b>	$b = \sin(A) \times 3.7$
<b>f</b>	$b = \frac{\sin(A)}{3}$

**4**

Solve for the side length in ratio form

<b>a</b>	$b = \frac{5}{\tan(A)}$
<b>b</b>	$b = \frac{\tan(A)}{5.8}$
<b>c</b>	$b = \frac{\tan(A)}{5}$
<b>d</b>	$b = \frac{5.8}{\tan(A)}$
<b>e</b>	$b = \tan(A) \times 5.8$
<b>f</b>	$b = \tan(A) \times 5$

**5** Solve for the side length in ratio form

<b>a</b>	$b = \tan(A) \times 12$
<b>b</b>	$b = \tan(A) \times 17$
<b>c</b>	$b = \frac{17}{\tan(A)}$
<b>d</b>	$b = \frac{12}{\tan(A)}$
<b>e</b>	$b = \frac{\tan(A)}{12}$
<b>f</b>	$b = \frac{\tan(A)}{17}$

**6**

Solve for the side length in ratio form

<b>a</b>	$b = \frac{\tan(A)}{3.5}$
<b>b</b>	$b = \frac{3}{\tan(A)}$
<b>c</b>	$b = \tan(A) \times 3$
<b>d</b>	$b = \frac{3.5}{\tan(A)}$
<b>e</b>	$b = \frac{\tan(A)}{3}$
<b>f</b>	$b = \tan(A) \times 1.7$

**7**

Solve for the side length in ratio form

<b>a</b>	$b = \frac{\cos(A)}{11}$
<b>b</b>	$b = \frac{11}{\cos(A)}$
<b>c</b>	$b = \frac{\cos(A)}{13.1}$
<b>d</b>	$b = \frac{13.1}{\cos(A)}$
<b>e</b>	$b = \cos(A) \times 11$
<b>f</b>	$b = \cos(A) \times 17.1$