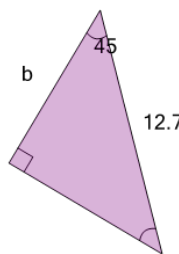# mobius

Math worksheet on *'Trigonometry - Side Length Ratios in Decimal from Diagrams (Level 1)'*. Part of a broader unit on *'Trigonometry - Solving Triangles'*
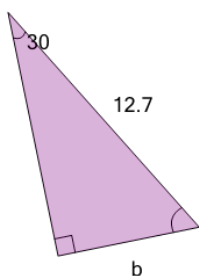
Learn online: app.mobius.academy/math/units/trigonometry_solving_triangles/

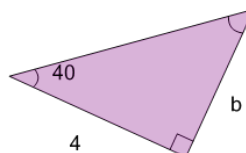**1** Solve for the side length in decimal form by calculating the trigonometric ratio

a	b
$b = \dfrac{0.71}{9}$	$b = \dfrac{0.71}{12.7}$
c $b = \dfrac{12.7}{0.71}$	**d** $b = \dfrac{9}{0.71}$
e $b = 0.71 \times 9$	**f** $b = 0.71 \times 12.7$

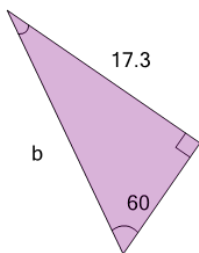**2** Solve for the side length in decimal form by calculating the trigonometric ratio

a	b
$b = \dfrac{0.50}{11}$	$b = 0.50 \times 6.4$
c $b = 0.50 \times 12.7$	**d** $b = \dfrac{11}{0.50}$
e $b = \dfrac{0.50}{6.4}$	**f** $b = \dfrac{0.50}{12.7}$

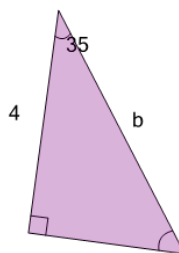**3** Solve for the side length in decimal form by calculating the trigonometric ratio

a	b
$b = \dfrac{0.84}{5.2}$	$b = \dfrac{0.84}{4}$
c $b = 0.84 \times 4$	**d** $b = 0.84 \times 5.2$
e $b = \dfrac{0.84}{3.4}$	**f** $b = \dfrac{5.2}{0.84}$

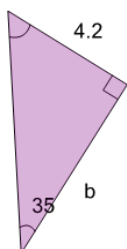**4** Solve for the side length in decimal form by calculating the trigonometric ratio

a	b
$b = \dfrac{10}{0.87}$	$b = \dfrac{0.87}{10}$
c $b = 0.87 \times 10$	**d** $b = \dfrac{0.87}{17.3}$
e $b = \dfrac{0.87}{20}$	**f** $b = \dfrac{17.3}{0.87}$

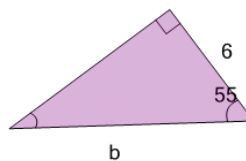**5** Solve for the side length in decimal form by calculating the trigonometric ratio

a	b
$b = \dfrac{2.8}{0.82}$	$b = \dfrac{0.82}{4}$
c $b = \dfrac{0.82}{2.8}$	**d** $b = \dfrac{0.82}{4.9}$
e $b = \dfrac{4}{0.82}$	**f** $b = 0.82 \times 4.9$

6 Solve for the side length in decimal form by calculating the trigonometric ratio

a	b
$b = \dfrac{0.70}{7.3}$	$b = \dfrac{0.70}{6}$
c $b = \dfrac{7.3}{0.70}$	**d** $b = \dfrac{4.2}{0.70}$
e $b = 0.70 \times 6$	**f** $b = 0.70 \times 4.2$

7 Solve for the side length in decimal form by calculating the trigonometric ratio

a	b
$b = \dfrac{8.6}{0.57}$	$b = \dfrac{0.57}{10.5}$
c $b = \dfrac{0.57}{6}$	**d** $b = \dfrac{0.57}{8.6}$
e $b = 0.57 \times 8.6$	**f** $b = \dfrac{6}{0.57}$

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