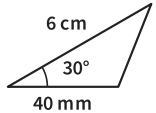
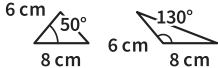
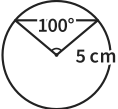
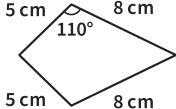
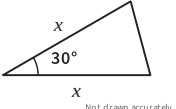
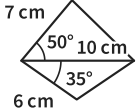
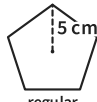
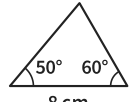
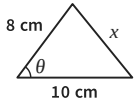


# Area of a Triangle Using Sine *ramp up*

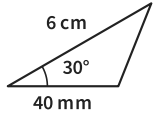
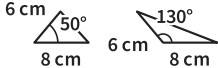
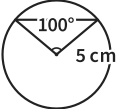
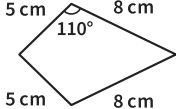
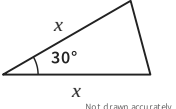
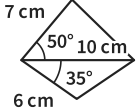
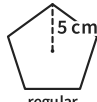
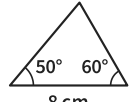
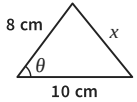


|                                                                                                                                                         |                                                                                                                                                          |                                                                                                                                                                                       |                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>a</b> <math>PQ=7</math> cm, <math>QR=9</math> cm and angle <math>PQR=48^\circ</math>. Find the area of <math>PQR</math> to 1 dp.</p> <p>_____</p> | <p><b>b</b> Find the area in <math>\text{cm}^2</math></p>  <p>_____</p> | <p><b>c</b> Which angle between sides of 5 cm and 7 cm gives the largest area?</p> <p>_____</p>                                                                                       | <p><b>d</b> Which triangle has the larger area?</p>  <p>_____</p>                                                       |
| <p><b>e</b> Find the area of the triangle to 1 dp</p>  <p>_____</p>    | <p><b>f</b> Find the area of the kite to 1 dp</p>  <p>_____</p>         | <p><b>g</b> The area is <math>45 \text{ cm}^2</math>. Find <math>x</math> to 1 dp</p>  <p>_____</p> | <p><b>h</b> Find the area to 1 dp</p>  <p>_____</p>                                                                     |
| <p><b>i</b> Find <math>x</math> to 1 dp</p>  <p>_____</p>              | <p><b>j</b> Find the area to 1 dp</p>  <p>_____</p>                     | <p><b>k</b> Find the area to 1 dp</p>  <p>_____</p>                                                 | <p><b>l</b> Area <math>32 \text{ cm}^2</math>, <math>\theta</math> acute. Find <math>x</math> to 1 dp</p>  <p>_____</p> |

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# Area of a Triangle Using Sine *ramp up*



|                                                                                                                                                         |                                                                                                                                                            |                                                                                                                                                                                         |                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>a</b> <math>PQ=7</math> cm, <math>QR=9</math> cm and angle <math>PQR=48^\circ</math>. Find the area of <math>PQR</math> to 1 dp.</p> <p>_____</p> | <p><b>b</b> Find the area in <math>\text{cm}^2</math></p>  <p>_____</p> | <p><b>c</b> Which angle between sides of 5 cm and 7 cm gives the largest area?</p> <p>_____</p>                                                                                         | <p><b>d</b> Which triangle has the larger area?</p>  <p>_____</p>                                                       |
| <p><b>e</b> Find the area of the triangle to 1 dp</p>  <p>_____</p>  | <p><b>f</b> Find the area of the kite to 1 dp</p>  <p>_____</p>         | <p><b>g</b> The area is <math>45 \text{ cm}^2</math>. Find <math>x</math> to 1 dp</p>  <p>_____</p> | <p><b>h</b> Find the area to 1 dp</p>  <p>_____</p>                                                                     |
| <p><b>i</b> Find <math>x</math> to 1 dp</p>  <p>_____</p>            | <p><b>j</b> Find the area to 1 dp</p>  <p>_____</p>                     | <p><b>k</b> Find the area to 1 dp</p>  <p>_____</p>                                                 | <p><b>l</b> Area <math>32 \text{ cm}^2</math>, <math>\theta</math> acute. Find <math>x</math> to 1 dp</p>  <p>_____</p> |

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