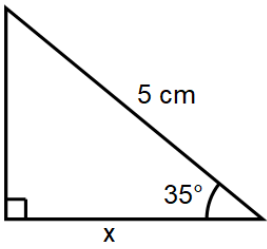
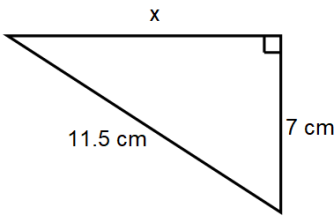
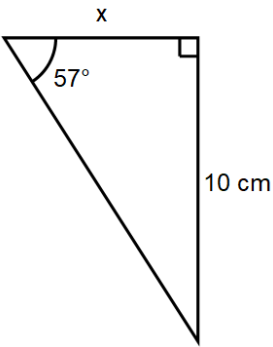
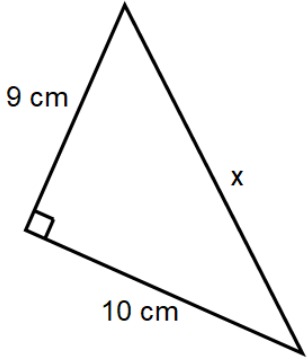
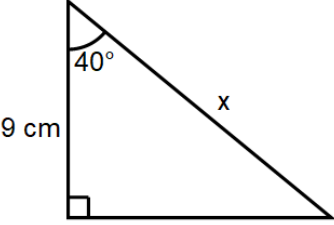
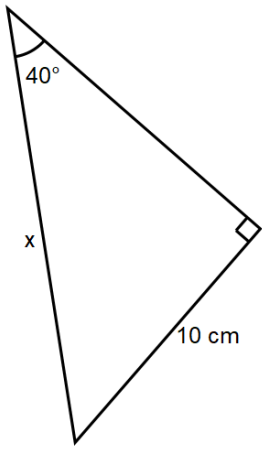
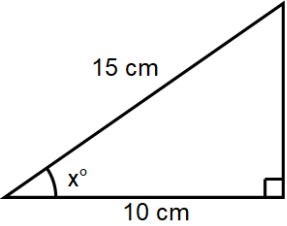
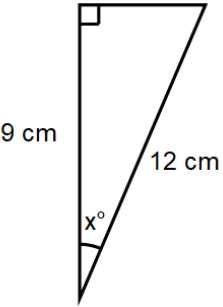
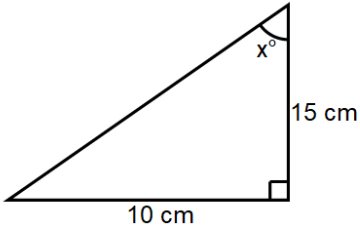
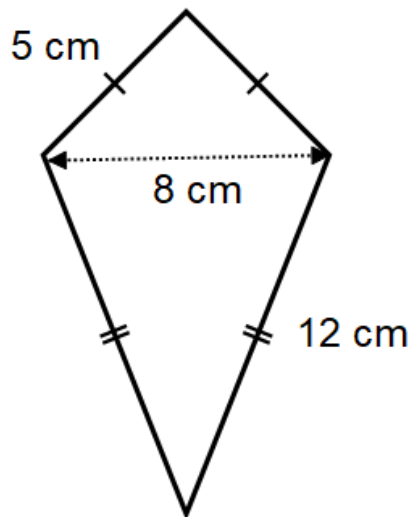


Trigonometry and Pythagoras Foundation: Geometry and Measures

I can.....

1	<p>Calculate the lengths marked by the letter x</p> <p>a) </p> <p>b) </p> <p>c) </p> <p>d) </p> <p>e) </p> <p>f) </p>	Calculate a missing side
2	<p>Calculate the angles marked by the letter x</p> <p>a) </p> <p>b) </p> <p>c) </p>	Calculate a missing angle
3	Calculate the distance between the points (-1, 4) and (5,20)	
4	<p>An extended ladder of length 6 m rests against a vertical wall. The foot of the ladder is 1.2 m from the base of the wall.</p> <p>a) Calculate the angle between the ladder and the horizontal ground.</p> <p>b) How far up the wall does the ladder reach (in the position described)?</p>	Solve problems involving trigonometry and/or Pythagoras

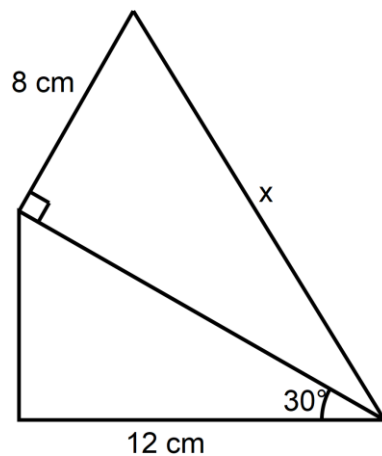
5 Calculate the area of the kite.



6 On leaving port a ship sails 40 km due west followed by a further 555 km due north.

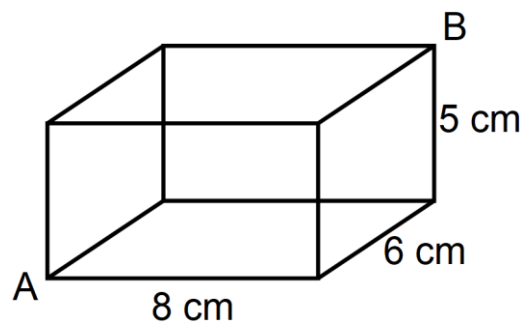
- Calculate the shortest distance back to port.
- Calculate the three-figure bearing of the shortest route back to port

7 Calculate the length of the side marked with the letter x



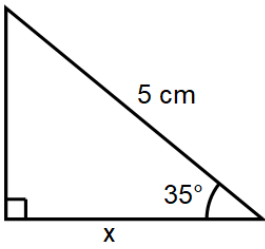
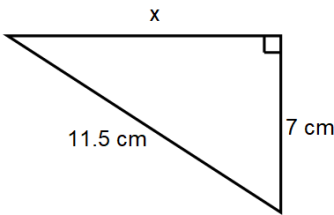
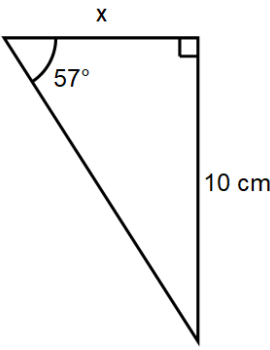
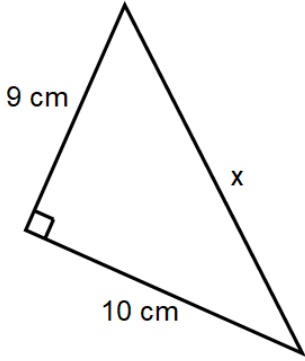
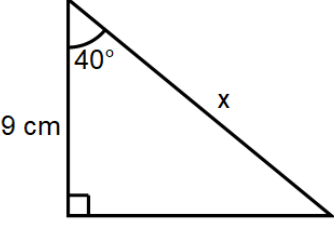
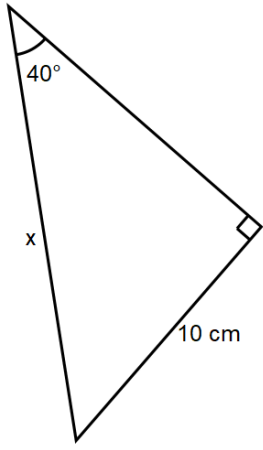
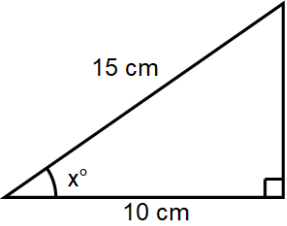
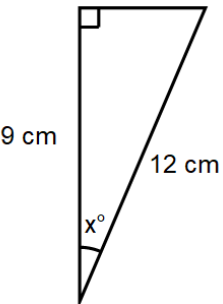
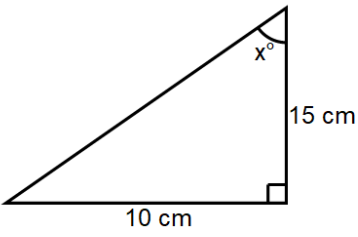
8 For the cuboid shown below

- Calculate the length of the diagonal AB
- Calculate the angle between AB and the horizontal base of the cuboid.

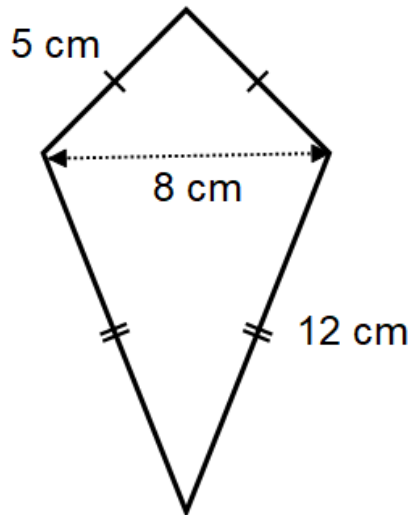


Trigonometry and Pythagoras Foundation: Geometry and Measures

I can.....

<p>1 Calculate the lengths marked by the letter x</p> <p>a) 4.1 cm</p>  <p>b) 9.1 cm</p>  <p>c) 6.5 cm</p>  <p>d) 13.5 cm</p>  <p>e) 11.7 cm</p>  <p>f) 15.6 cm</p> 	<p>Calculate a missing side</p>
<p>2 Calculate the angles marked by the letter x</p> <p>a) 48.2°</p>  <p>b) 41.4°</p>  <p>c) 33.7°</p> 	<p>Calculate a missing angle</p>
<p>3 Calculate the distance between the points (-1, 4) and (5,20) 17.1 (units)</p>	
<p>4 An extended ladder of length 6 m rests against a vertical wall. The foot of the ladder is 1.2 m from the base of the wall.</p> <p>a) Calculate the angle between the ladder and the horizontal ground. 78.5°</p> <p>b) How far up the wall does the ladder reach (in the position described)? 5.9m</p>	<p>Solve problems involving trigonometry and/ or Pythagoras</p>

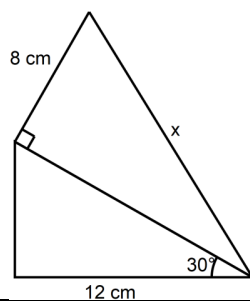
- 5 Calculate the area of the kite. 57.3 cm^2



- 6 On leaving port a ship sails 40 km due west followed by a further 55 km due north.

- a) Calculate the shortest distance back to port. 56.4 km
b) Calculate the three-figure bearing of the shortest route back to port 356°

- 7 Calculate the length of the side marked with the letter x 16 cm



- 8 For the cuboid shown below

- a) Calculate the length of the diagonal AB 11.2 cm
b) Calculate the angle between AB and the horizontal base of the cuboid. 26.6°

