## Applying Trigonometry

Maths

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## Applying Trigonometry

1. a) Find the height of triangle $A B C$

b) Find the length $B D$

Give your answer to 1 decimal place
2. JKL is an isosceles triangle.

The length of $L K$ is 10 cm .
a) Find the height of JKL.
b) Hence, find the area.


Give your answer to 3 significant figures.

## Applying Trigonometry

3. A ship travels 25 km on a bearing of $130^{\circ}$.


How far east of its original position is it?
Give your answer to 1 decimal place.
4. Jack wants to fence the perimeter of his triangular field.

a) How much fencing will he need?
b) Fencing is only sold in 1 m lengths costing $£ 2.16$ each.
How much will it cost to fence the field?

Answers

## Applying Trigonometry

1. a) Find the height of triangle $A B C$

b) Find the length $B D$

Give your answer to 1 decimal place 17.5 m
2. JKL is an isosceles triangle.

The length of $L K$ is 10 cm .
a) Find the height of JKL. 13.7 cm (3 s.f)
b) Hence, find the area.

Answers between $68.5 \mathrm{~cm}^{2}$ and $68.7 \mathrm{~cm}^{2}$

Give your answer to 3 significant figures.

## Applying Trigonometry

3. A ship travels 25 km on a bearing of $130^{\circ}$.


How far east of its original position is it?
Give your answer to 1 decimal place.
4. Jack wants to fence the perimeter of his triangular field.

a) How much fencing will he need?

$$
9+7.2+5.4=21.6 \mathrm{~m}
$$

b) Fencing is only sold in 1 m lengths costing $£ 2.16$ each.
How much will it cost to fence the
field? $22 \times £ 2.16=£ 47.52$

