



SCAN ME

3D Trig/Pythagoras



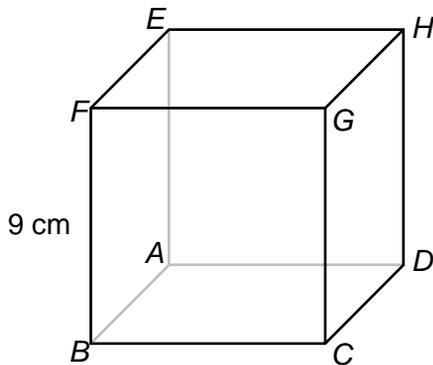
SCAN ME

← REVISE THIS TOPIC

→ CHECK YOUR ANSWERS

1 Here is a cube.

$BF = 9 \text{ cm}$



1 (a) Work out the length of AC giving your answer to 1 decimal place. [2 marks]

Answer _____ cm

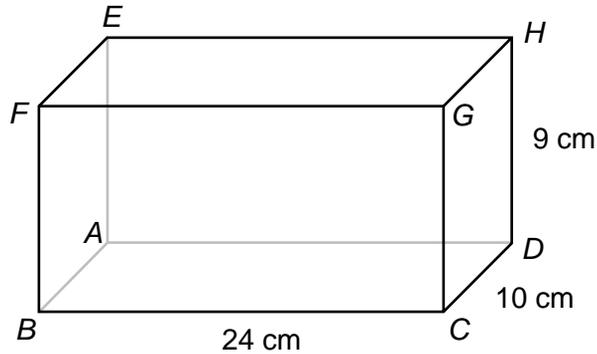
1 (b) Work out the length of CE giving your answer to 1 decimal place. [2 marks]

Answer _____ cm



2 Here is a cuboid.

$$BC = 24 \text{ cm} \quad CD = 10 \text{ cm} \quad DH = 9 \text{ cm}$$



2 (a) Work out the length of BD . [2 marks]

Answer _____ cm

2 (b) Work out the length of BH giving your answer to 1 decimal place. [2 marks]

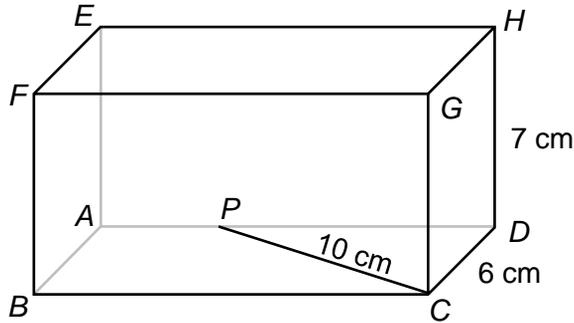
Answer _____ cm

2 (c) Work out the size of angle DBH giving your answer to 1 decimal place. [2 marks]

Answer _____ °



- 6 Here is a cuboid.
 P is the point on the line AD so that $AP : PD = 1 : 2$
 $CD = 6\text{ cm}$ $DH = 7\text{ cm}$ $PC = 10\text{ cm}$



- 6 (a) Work out the length of BC giving your answer to 1 decimal place. [3 marks]

Answer _____ cm

- 6 (b) Work out the length of BP giving your answer to 1 decimal place. [2 marks]

Answer _____ cm

- 6 (c) Work out the size of angle BPF giving your answer to 1 decimal place. [2 marks]

Answer _____ °

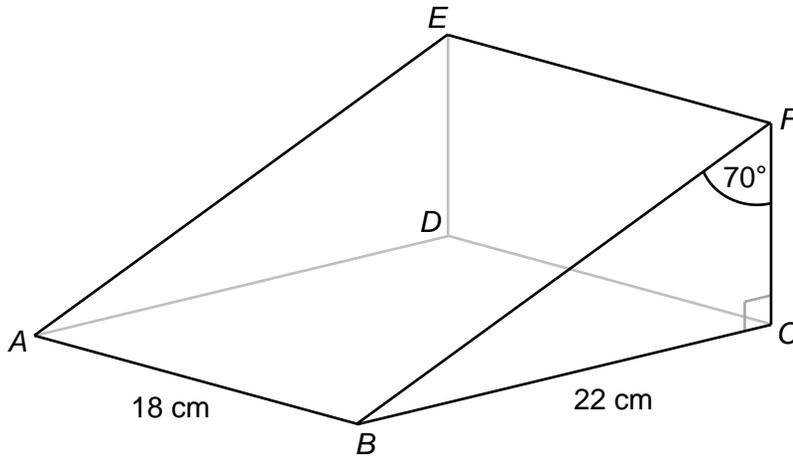


9 Here is a triangular prism.

$AB = 18 \text{ cm}$

$BC = 22 \text{ cm}$

$\text{Angle } BFC = 70^\circ$



9 (a) Work out the length of AF giving your answer to 1 decimal place. [4 marks]

Answer _____ cm

9 (b) Work out the size of angle FAC giving your answer to 1 decimal place.

Answer _____

12

Turn over ►

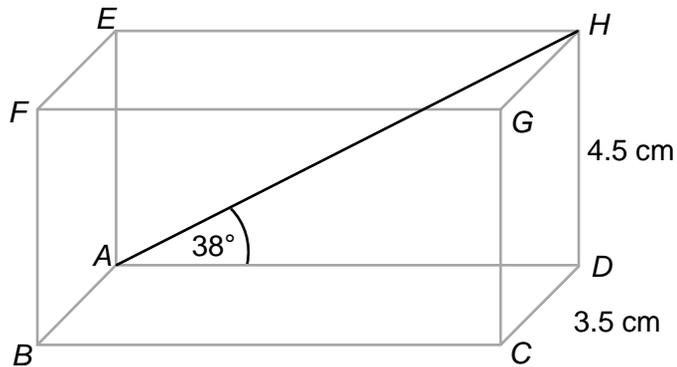


10 Here is a cuboid.

$CD = 3.5 \text{ cm}$

$DH = 4.5 \text{ cm}$

$\text{Angle } HAD = 38^\circ$



10 (a) Work out the length of AG giving your answer to 1 decimal place. [4 marks]

Answer _____ cm

10 (b) Work out the size of angle HAG giving your answer to 1 decimal place. [2 marks]

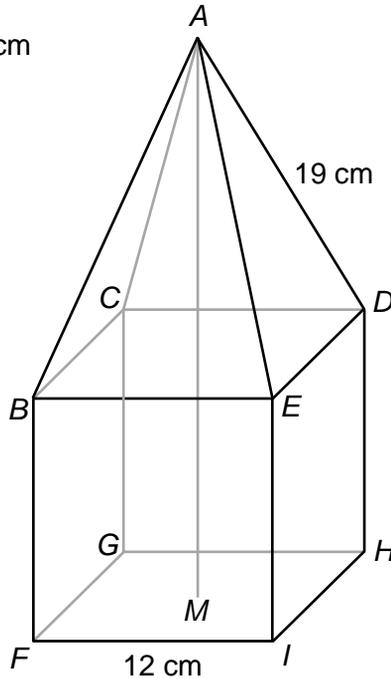
Answer _____ °



12

$ABCDE$ is a square-based pyramid placed on top of cube $BCDEFGHI$.
 M is the midpoint of the line FH with FH perpendicular to MA .

$FE = 12\text{ cm}$ $AD = 19\text{ cm}$



Work out the size of angle AFM giving your answer to 1 decimal place. [6 marks]

Answer _____



