



The diagram represents a cuboid ABCDEFGH.

AB = 5 cm. BC = 7 cm. AE = 3 cm.

Calculate the length of AG.

Give your answer correct to 3 significant figures.

..... cm



2. A cuboid has length 3 cm, width 4 cm and height 12 cm.



Diagram **NOT** accurately drawn

Work out the length of PQ.

..... cm (Total 3 marks)



3. The diagram shows a pyramid. The apex of the pyramid is *V*.

Each of the sloping edges is of length 6 cm.



Diagram NOT accurately drawn

The base of the pyramid is a regular hexagon with sides of length 2 cm. *O* is the centre of the base.



Diagram NOT accurately drawn

Calculate the height of *V* above the base of the pyramid. Give your answer correct to 3 significant figures.

.....cm



Diagram NOT accurately drawn



PQR is a right-angled triangle. PQ = 16 cm. PR = 8 cm.

Calculate the length of *QR*. Give your answer correct to 2 decimal places.







XYZ is a right-angled triangle. XY = 3.2 cm. XZ = 1.7 cm.

Calculate the length of YZ.

Give your answer correct to 3 significant figures.

..... cm

(3 marks)

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ABC is a right-angled triangle.

AB = 8 cm, BC = 11 cm.

Calculate the length of *AC*. Give your answer correct to 3 significant figures.



MN = 6.3 m. Work out the length of LN.

Give your answer correct to 3 significant figures.







Diagram **NO**T accurately drawn

ABCD is a rectangle. AC = 17 cm. AD = 10 cm.

Calculate the length of the side *CD*. Give your answer correct to one decimal place.



Norwich is 168 km due East of Leicester. York is 157 km due North of Leicester.

Calculate the distance between Norwich and York. Give your answer correct to the nearest kilometre.

..... km (3 marks)







A rectangular television screen has a width of 45 cm and a height of 34 cm.

Work out the length of the diagonal of the screen. Give your answer correct to the nearest centimetre.



8.





Work out the length, in centimetres, of *AM*. Give your answer correct to 2 decimal places.

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ABCD is a trapezium. AD is parallel to BC. Angle A = angle B = 90. AD = 2.1 m, AB = 1.9 m, CD = 3.2 m.

Work out the length of *BC*. Give your answer correct to 3 significant figures.

..... m **(4 marks**)

10.



Diagram NOT accurately drawn

ABC is a right-angled triangle.

AC = 6 cm. BC = 9 cm.

Work out the length of *AB*. Give your answer correct to 3 significant figures.

..... cm

(3 marks)





Diagram NOT accurately drawn

In triangle ABC,

AB = 10 cmAC = 20 cmangle $BAC = 90^{\circ}$

Work out the length of *BC*. Give your answer correct to 3 significant figures. You must state the units in your answer.



11.



13. *ABCD* is a trapezium.



AD = 10 cm AB = 9 cm DC = 3 cmAngle $ABC = \text{angle } BCD = 90^{\circ}$

Calculate the length of *AC*. Give your answer correct to 3 significant figures.

 cm
(5 marks)

14. A ladder is 6 m long.

The ladder is placed on horizontal ground, resting against a vertical wall.

The instructions for using the ladder say that the bottom of the ladder must **not** be closer than 1.5 m from the bottom of the wall.

How far up the wall can the ladder reach? Give your answer correct to 1 decimal place.

> m (4 marks)