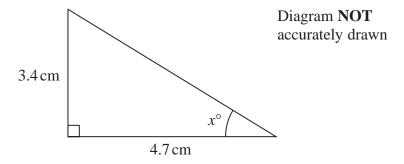
1 The diagram shows a right-angled triangle.

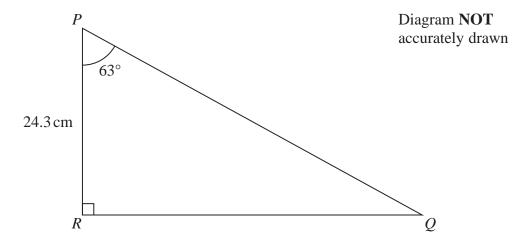


Calculate the value of x.

Give your answer correct to one decimal place.

 $x = \dots$

2 Here is a right-angled triangle.



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

.....cm

(Total for Question 2 is 3 marks)

3 Here is isosceles triangle *ABC*.

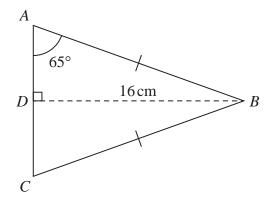


Diagram **NOT** accurately drawn

D is the midpoint of AC and $DB = 16 \,\mathrm{cm}$.

Angle $DAB = 65^{\circ}$

Work out the perimeter of triangle *ABC*. Give your answer correct to one decimal place.

.....cm

4 The diagram shows triangle ABP inside the regular hexagon ABCDEF

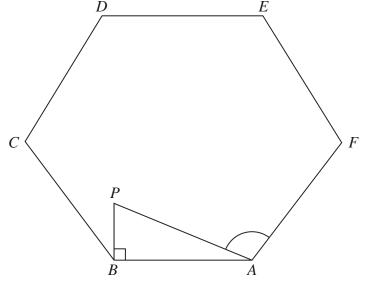


Diagram **NOT** accurately drawn

 $AB = 5 \,\mathrm{cm}$

 $BP = 2 \,\mathrm{cm}$

Angle $ABP = 90^{\circ}$

Work out the size of angle PAF

Give your answer correct to 3 significant figures.

5 The diagram shows triangle *PQR*.

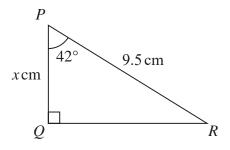


Diagram **NOT** accurately drawn

Work out the value of x Give your answer correct to one decimal place.

x =

(Total for Question 5 is 3 marks)

6 R and T are points on a circle, centre O

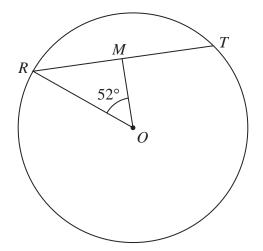


Diagram **NOT** accurately drawn

RT = 12 cmM is the midpoint of RT Angle $ROM = 52^{\circ}$

Work out the area of the circle. Give your answer correct to 3 significant figures.

......cm²

7 The diagram shows a rectangular sheet of metal ABCD

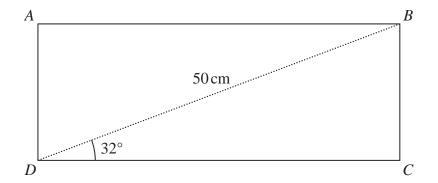


Diagram **NOT** accurately drawn

 $BD = 50 \,\mathrm{cm}$ and angle $BDC = 32^{\circ}$

Nasser joins side AD to side BC to form a cylinder.

BC is the height of the cylinder.

DC is the circumference of the cross section of the cylinder.

Work out the volume, in cm³, of the cylinder.

Give your answer correct to 3 significant figures.

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	7
	cm ³
	(Total for Question 7 is 6 marks)

8 The diagram shows right-angled triangle *ABD*

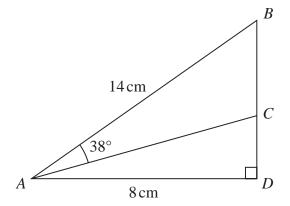


Diagram **NOT** accurately drawn

 $AB = 14 \,\mathrm{cm}$

$$AD = 8 \,\mathrm{cm}$$

C is the point on BD such that angle $BAC = 38^{\circ}$

Work out the length of *CD*

Give your answer correct to 3 significant figures.

(Total for Question 8 is 4 marks)