AREA + CIRCUMFERENCE OF CIRCLES

(a	find the accuracy	ne circumference	of the pond, gi	ving your a	nswer to an	appropriat	e degi
						_	
(E	b) Calcula	te the area of the s	urface of the pon	d, stating cle	arly the units	of your ans	swer.
In bot	th parts (a) a	and (b) of this que opriate degree of a	estion you should	state the un	its of your a	nswer and g	give ye
A circ	er to an appro	and (b) of this que opriate degree of a as a radius of 8.2 m	accuracy.	state the un	its of your a	nswer and g	give yo
A circ	er to an appro	as a radius of 8.2 m	accuracy.	state the un	its of your a	nswer and g	give yo
A circ	er to an appro	as a radius of 8.2 m	accuracy.	state the un	its of your a	nswer and g	
A circ	er to an approular pond hat Find the pe	as a radius of 8.2 m	d.	state the un	its of your a	nswer and g	
A circ	cular pond hat Find the performance.	as a radius of 8·2 merimeter of the pond	ce of the pond.				
A circ	cular pond hat Find the performance.	as a radius of 8·2 merimeter of the pone	ce of the pond.				

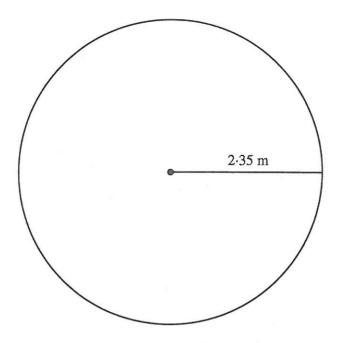
	Calculate the area of the lawn.
•••••	
•••••••	
••••••	
(b)	The gardener wishes to put an edging around the circumference of the lawn. Calculength of edging needed.
	longer or edging needed.

••••••	
••••••	
	both parts (a) and (b) of this question you should give your answer to an appropriate uracy.
acc	
A c	ircular disc has a radius of 7.5 cm.
A c	uracy.
A c	ircular disc has a radius of 7.5 cm. Calculate the area of one surface of the disc.
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acc (a,	ircular disc has a radius of 7.5 cm. Calculate the area of one surface of the disc.
(b)	ircular disc has a radius of 7.5 cm. Calculate the area of one surface of the disc. Calculate the perimeter of the disc.
(b)	ircular disc has a radius of 7.5 cm. Calculate the area of one surface of the disc.

[3]



A circular table has a radius of $2.35\,\mathrm{m}$. The top of the table is painted with varnish. One litre of varnish covers $4\,\mathrm{m}^2$.



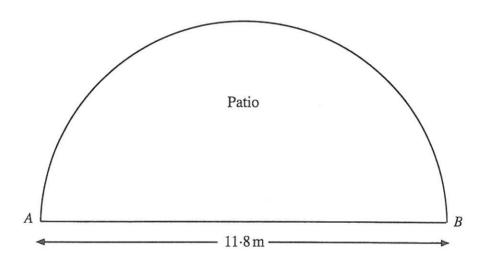
)	How many litre tins of varnish must be bought to paint the top of the table?
	[4
	What is the circumference of the top of the table?
	•

[2]

6)(a)	Find the circumference of a wheel that has a radius of 16.7 cm, giving your answer to an appropriate degree of accuracy.

		[3]

(b) AB represents the front wall of a house, 11.8 m long. The house has a semicircular patio in front of it, as shown in the diagram. Calculate the area of the patio.



(7)

A circular mirror is mounted on a square wooden frame of side 12cm so that it touches the sides of the frame as shown in the diagram. Calculate the area of the wooden frame not covered by the mirror (the shaded part of the diagram).

Give your answer to an appropriate degree of accuracy.

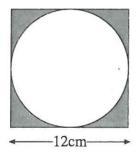


Diagram not drawn to scale

[2]



A sports ground is in the shape of a rectangle of length 100 m with a semi-circle of radius 40 m at each end as shown in the diagram.

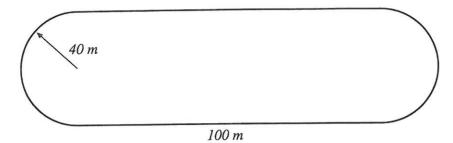
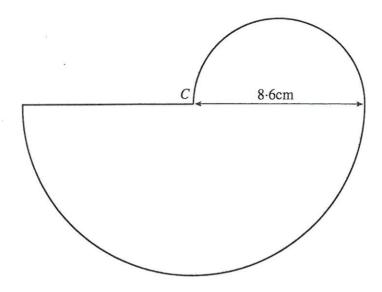


Diagram not drawn to scale.

(a)	Calculate the perimeter of the sports ground. State clearly the units of your answer.
	[3]
(b)	Calculate the area of the sports ground. State clearly the units of your answer.
	[4]



The shape shown below is made up of two semicircles. The diameter of the smaller semicircle is $8.6 \, \text{cm}$. C is the mid-point of the diameter of the larger semicircle.



Stating clearly the units of your answers, calculate

(a)	the perimeter of the shape, giving your answer to an appropriate degree of accuracy,
(b)	the area of the shape, giving your answer to the nearest whole number.
	the area of the shape, giving your answer to the nearest whole number.
,	
	[3]