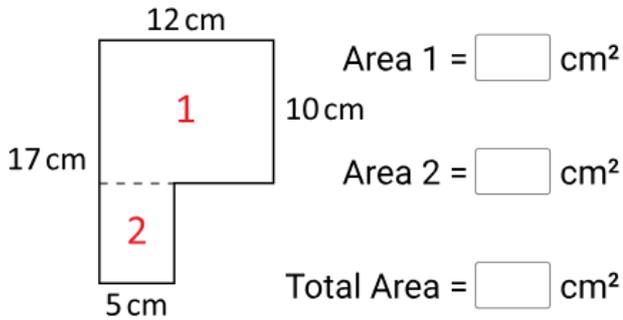


Year 9 Class 20 questions

Q1

Find the area of the composite shape.

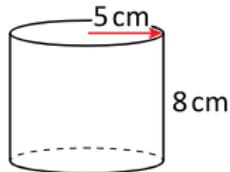


Q2

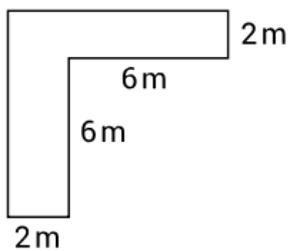
How many cubic centimetres in a cubic metre?

Q3

Find the surface area of this cylinder.

 cm² (1 d.p.)


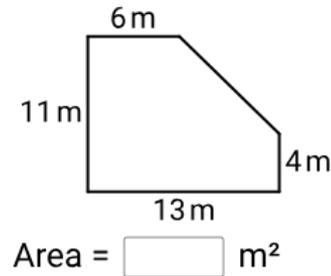
Q4



Area = m²

Q5

Find the area.



Q6

Complete the area conversion.

4.5 cm² = mm²

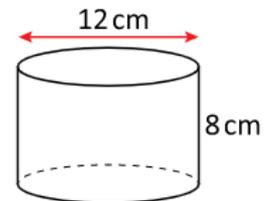
Q7

Complete the area conversion.

890 mm² = cm²

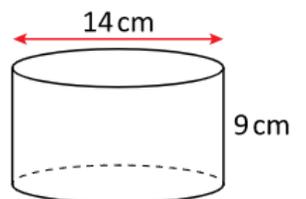
Q8

Find the surface area of this cylinder.

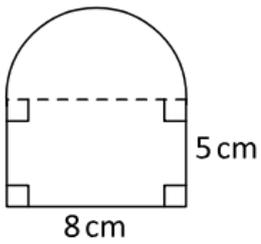
 cm² (1 d.p.)


Q9

Find the surface area of this cylinder.

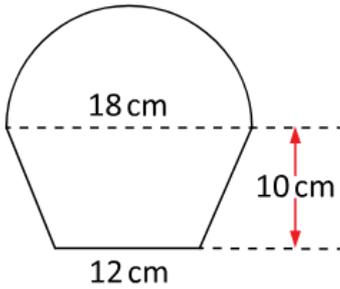
 cm² (1 d.p.)


Q10



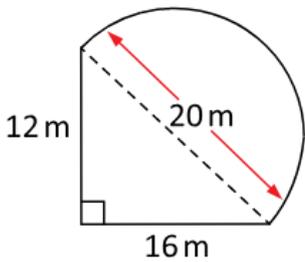
Area = cm² (1 d.p.)

Q11



Area = cm² (1 d.p.)

Q12



Area = m² (1 d.p.)

Q13

Complete the volume conversion.

0.03 m³ = cm³

Q14

Complete the volume conversion.

5200 mm³ = cm³

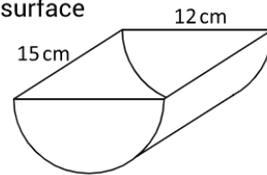
Q15

Complete the volume conversion.

350 mm³ = cm³

Q16

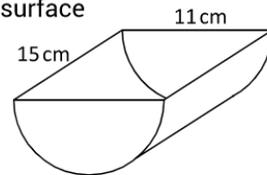
Find the exterior surface area of this *open* half-cylinder.



cm² (1 d.p.)

Q17

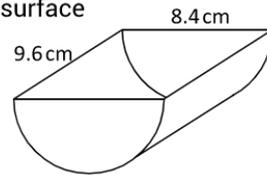
Find the exterior surface area of this *open* half-cylinder.



cm² (1 d.p.)

Q18

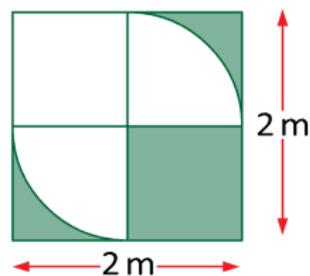
Find the exterior surface area of this *open* half-cylinder.



cm² (1 d.p.)

Q19

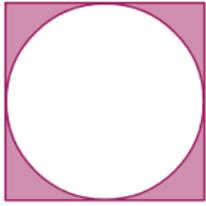
Find the shaded area.



Area = m² (1 d.p.)

Q20

Find the shaded area.

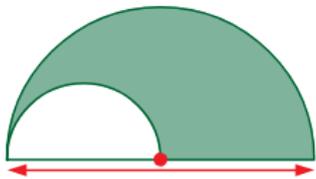


12 m

Area = m² (1 d.p.)

Q21

Find the shaded area.

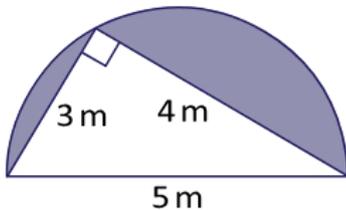


12 m

Area = m² (1 d.p.)

Q22

Find the shaded area.



5 m

Area = m² (1 d.p.)

Q23

A hectare is defined as a square area 100 m by 100 m.

(a) Find the number of square metres in a hectare.

m²

(b) Jen owns a rectangular block of land that is 720 m by 300 m. Calculate the area of this block in hectares.

ha

Q24

A rectangular room measures 3300 mm by 1250 mm and is 2.4 m from floor to ceiling. Calculate the volume of air the room contains in cubic metres.

m³

Q25

A rectangular room measures 8500 mm by 4250 mm and is 2.4 m from floor to ceiling. Calculate the volume of air the room contains in cubic metres.

m³

Q26

A straight concrete path is planned to be 15 m long, 900 mm wide and 120 mm thick.

(a) Calculate the volume of concrete required (in m³) to build the path.

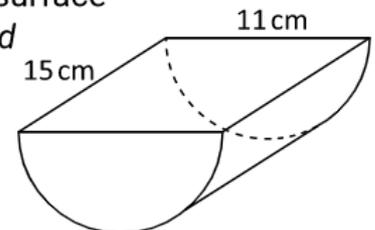
m³

(b) Find the cost to build the path if it costs \$1350 per m³.

\$

Q27

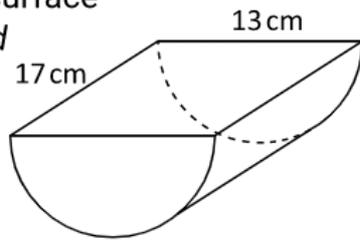
Find the exterior surface area of this closed half-cylinder.



cm² (1 d.p.)

Q28

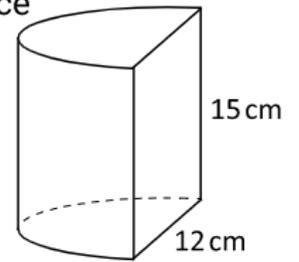
Find the exterior surface area of this *closed* half-cylinder.



cm² (1 d.p.)

Q30

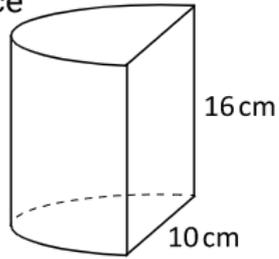
Find the exterior surface area of this *closed* half-cylinder.



cm² (1 d.p.)

Q29

Find the exterior surface area of this *closed* half-cylinder.



cm² (1 d.p.)