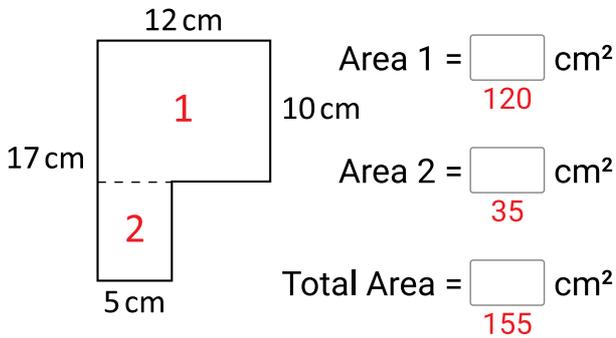


Year 9 Class 20 questions

Q1

Find the area of the composite shape.



Q2

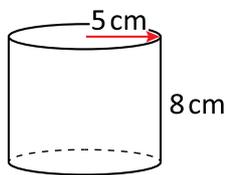
How many cubic centimetres in a cubic metre?

1000000

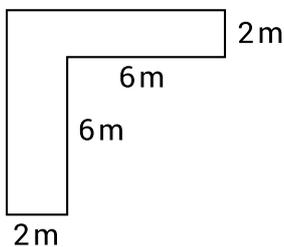
Q3

Find the surface area of this cylinder.

cm² (1 d.p.)



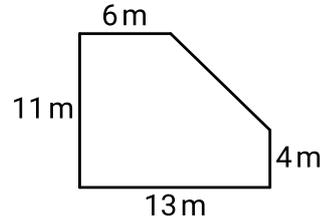
Q4



Area = m² 28

Q5

Find the area.



Area = m² 118.5m²

Q6

Complete the area conversion.

4.5 cm² = mm²

Q7

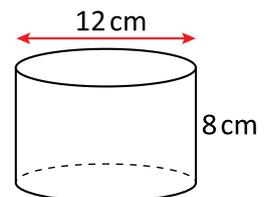
Complete the area conversion.

890 mm² = cm²

Q8

Find the surface area of this cylinder.

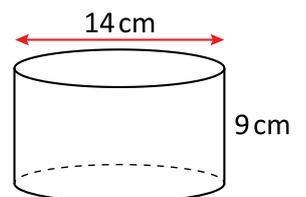
cm² (1 d.p.)



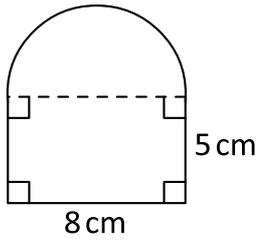
Q9

Find the surface area of this cylinder.

cm² (1 d.p.)

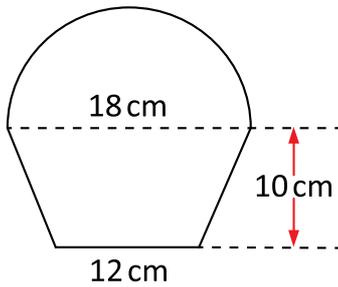


Q10



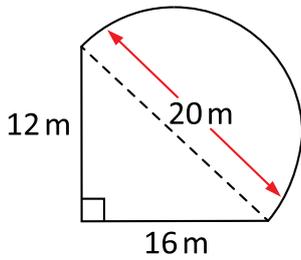
Area = cm² (1 d.p.)
65.1

Q11



Area = cm² (1 d.p.)
277.2

Q12



Area = m² (1 d.p.)
253.1

Q13

Complete the volume conversion.

0.03 m³ = cm³
30000

Q14

Complete the volume conversion.

5200 mm³ = cm³
5.2

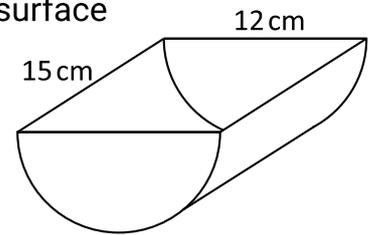
Q15

Complete the volume conversion.

350 mm³ = cm³
0.35

Q16

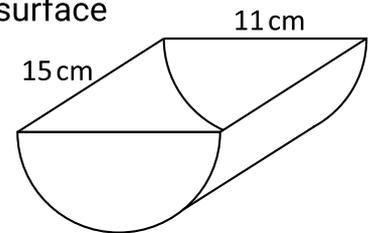
Find the exterior surface area of this *open* half-cylinder.



cm² (1 d.p.) 395.8

Q17

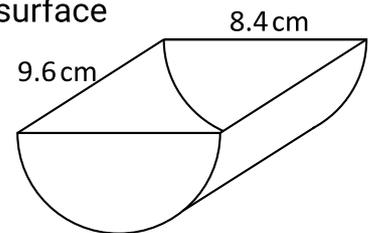
Find the exterior surface area of this *open* half-cylinder.



cm² (1 d.p.) 354.2

Q18

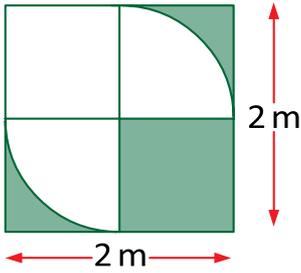
Find the exterior surface area of this *open* half-cylinder.



cm² (1 d.p.) 182.1

Q19

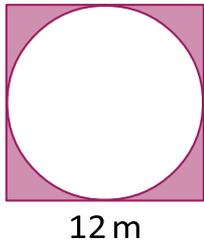
Find the shaded area.



Area = m² (1 d.p.)
1.4

Q20

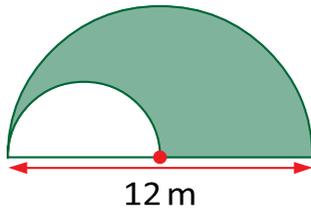
Find the shaded area.



Area = m² (1 d.p.)
30.9

Q21

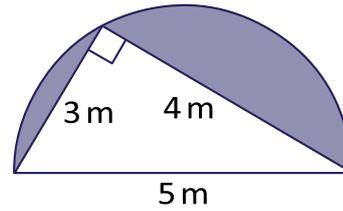
Find the shaded area.



Area = m² (1 d.p.)
42.4

Q22

Find the shaded area.



Area = m² (1 d.p.)
3.8

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 10000 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 21.6 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 9.9 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 86.7 m³

Q26

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

(a) Calculate the volume of concrete required (in m^3) to build the path.

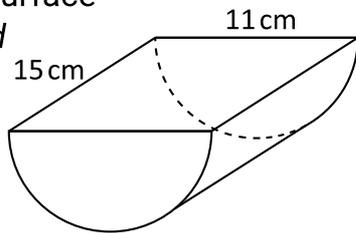
m^3 1.62 m^3

(b) Find the cost to build the path if it costs \$1350 per m^3 .

\$ \$2187

Q27

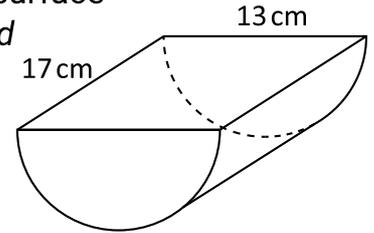
Find the exterior surface area of this *closed* half-cylinder.



cm^2 (1 d.p.) 519.2

Q28

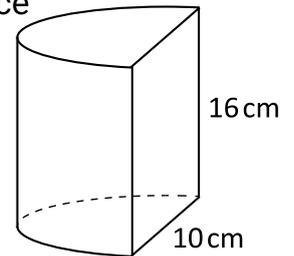
Find the exterior surface area of this *closed* half-cylinder.



cm^2 (1 d.p.) 700.9

Q29

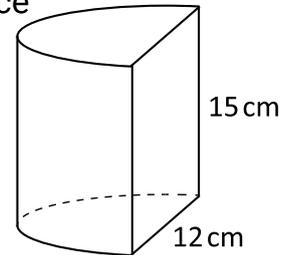
Find the exterior surface area of this *closed* half-cylinder.



cm^2 (1 d.p.) 489.9

Q30

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



cm^2 (1 d.p.) 575.8