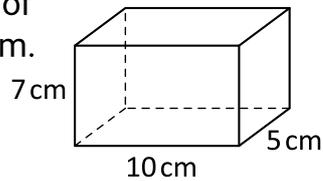


Year 9 Class 21 questions

Q1

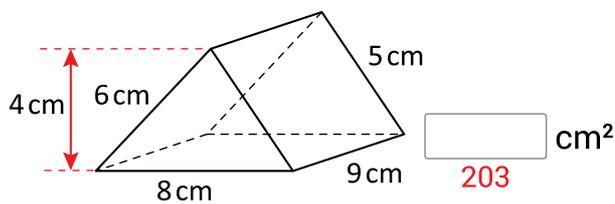
Find the surface area of this rectangular prism.

cm²
310



Q2

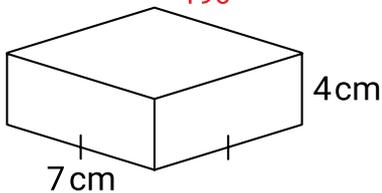
Find the surface area of the triangular prism.



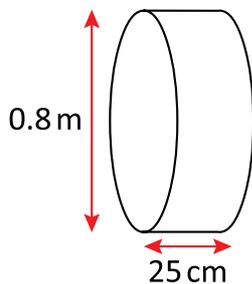
cm²
203

Q3

Volume = cm³
196

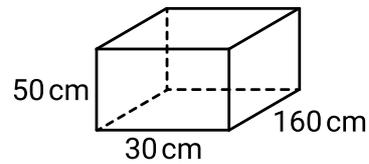


Q4



Volume = cm³ (1 d.p.)
125663.7

Q5



Find the volume of this fish tank in cm³.

Volume = cm³ 240 000 cm³

What is its capacity in litres?

Capacity = L 240 L

Q6

Find the surface area of a rectangular prism with length 12 cm, width 8 cm and height 7 cm.

cm² 472

Q7

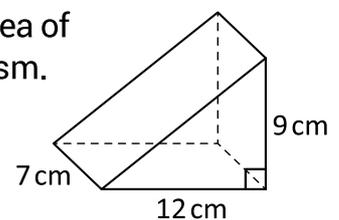
Find the surface area of a rectangular prism with length 16 cm, width 10 cm and height 11 cm.

cm² 892

Q8

Find the surface area of this triangular prism.

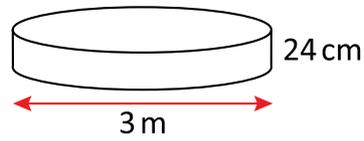
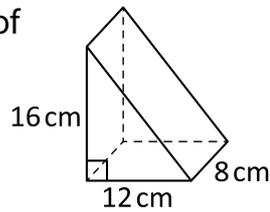
cm²
360



Q9

Find the surface area of this triangular prism.

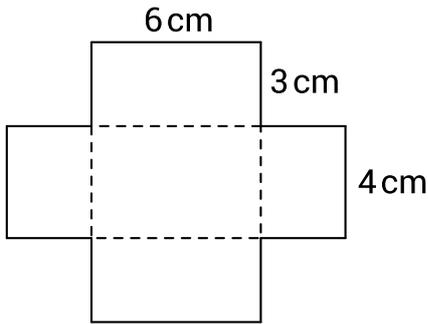
cm²
576



Volume = cm³ (1 d.p.)
1 696 460

Q10

This sheet of cardboard is folded to form a box. Find its volume.



Volume = cm³ 72

Q14

A cupboard in the shape of a rectangular prism measures 3 m by 50 cm by 1.7 m.

Find its volume in m³.

m³ 2.55 m³

Q15

A storage box in the shape of a rectangular prism measures 1 m by 1 m by 45 cm.

Find its volume in m³.

m³ 0.45 m³

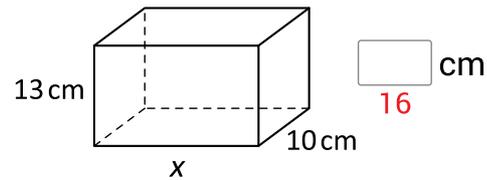
Q11

What is the volume of a rectangular prism with length 8 cm, width 7.5 cm and height 4.2 cm?

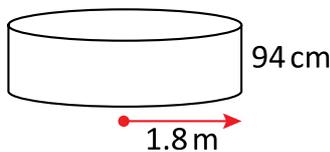
Volume = cm³
252

Q16

Find x given that the surface area of the rectangular prism is 996 cm².



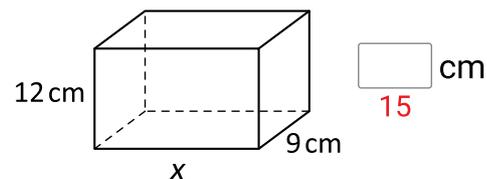
Q12



Volume = m³ (1 d.p.)
9.6

Q17

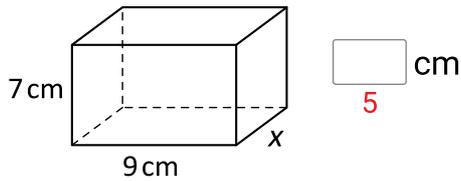
Find x given that the surface area of the rectangular prism is 846 cm².



Q13

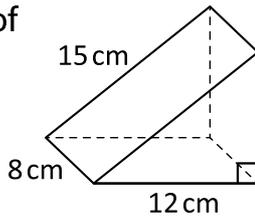
Q18

Find x given that the surface area of the rectangular prism is 286 cm^2 .

**Q19**

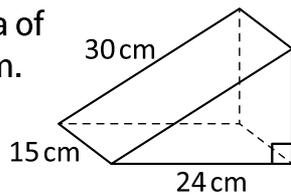
Find the surface area of this triangular prism.

cm^2
396

**Q20**

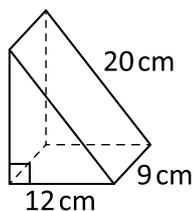
Find the surface area of this triangular prism.

cm^2
1512

**Q21**

Find the surface area of this triangular prism.

cm^2
624

**Q22**

The volume of a rectangular prism is 10.4 cm^3 . If breadth = 5.2 cm and height = 0.4 cm , find the length of the prism.

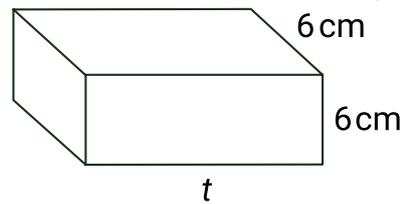
Length = cm
5

Q23

The volume of this prism is 216 cm^3 .

Find the value of t .

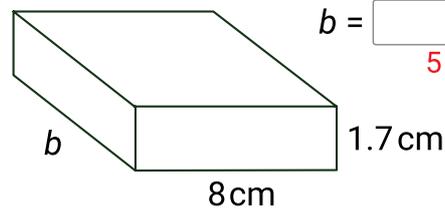
$t =$ cm
6

**Q24**

The volume of this prism is 68 cm^3 .

Find the value of b .

$b =$ cm
5

**Q25**

A coffee cup in the shape of a cylinder has internal diameter 8 cm and a height of 8 cm. Find the volume of liquid in millilitres it can hold if $1 \text{ cm}^3 = 1 \text{ mL}$.

mL (nearest mL)
402

Q26

Find the volume of a cylindrical tank with a height of 78 cm and a diameter of 5 m.

m^3 (1 d.p.)
15.3

Q27

Find the volume of a cylindrical pipe with a length of 14.3 m and a diameter of 40 cm.

m^3 (1 d.p.)
1.8

Q28

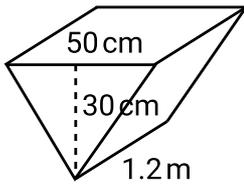
A cylindrical can of soft drink holds 360 mL.

If the can has a radius of 3.5 cm, find its height. Answer in centimetres correct to 1 decimal place.

cm **9.4 cm**

Q29

A farmer makes the water trough shown.

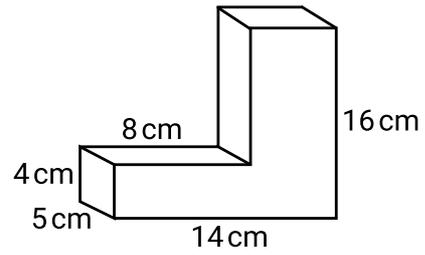


How much water does the trough hold?

L **90 L**

Q30

The container shown is filled with water.



How much water does it hold?

mL **640 mL**