Corbett maths

Examples

Workout

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Question 1: Work out the volume of each cuboid.
Include suitable units.

(a)
3cm 4cm 10cm

(b)
11cm 3cm 2cm

(c)
5cm 5cm 6cm

(d)
25cm 20cm 4cm

(e)
6cm 50cm 90cm

(f)
7.2cm 4.5cm 4.5cm
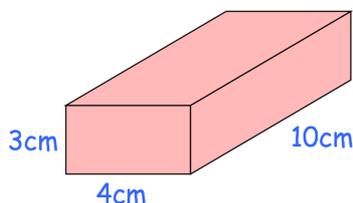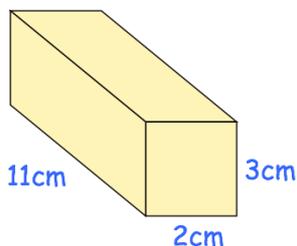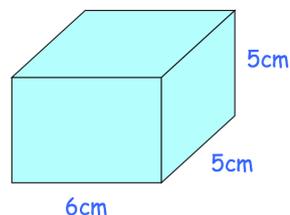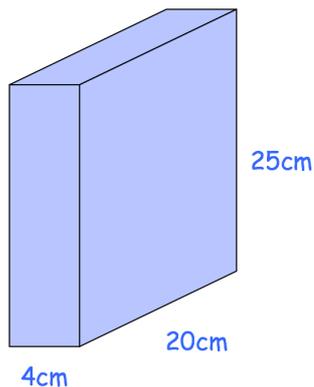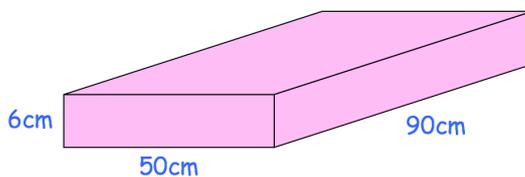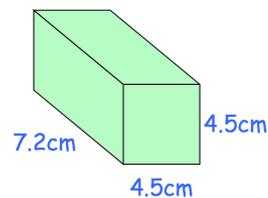
Question 2: Work out the volume of each cube.
Include suitable units.

(a)
3cm

(b)
5m

(c)
7mm

(d)
21cm

(e)
0.6cm
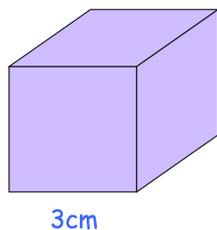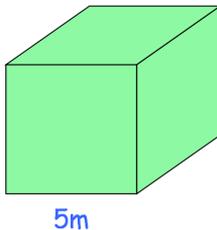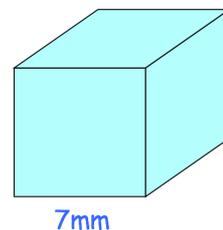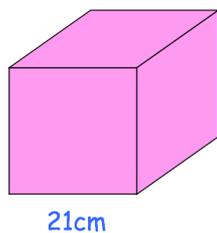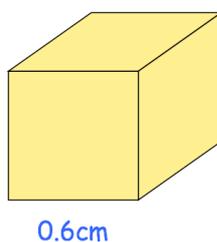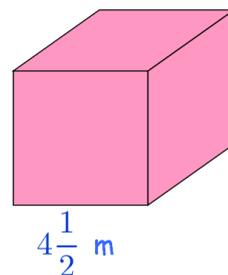
(f)
$4\frac{1}{2}$ m

Question 3:   Find the length of each cuboid.

(a)   Volume: 140cm³

10cm

2cm

x

(b)   Volume: 160cm³

4cm

8cm

(c)   Volume: 432cm³

x   4.5cm

4cm
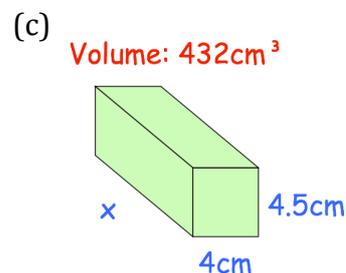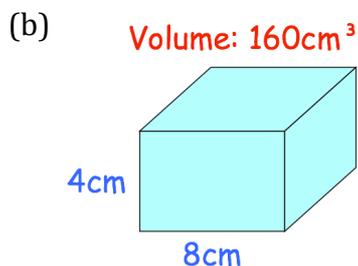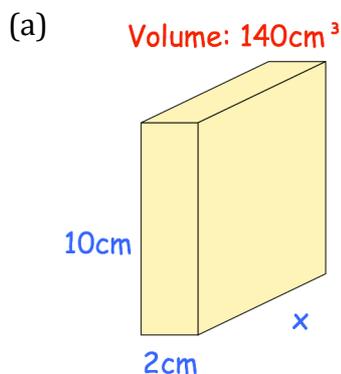
Question 4:   For each cuboid below, find the missing measurement, y.

(a)   Volume: 960cm³

y   20cm

8cm

(b)   Volume: 990cm³

y   11cm

9cm

(c)   Volume: 3500mm³

3.5mm   40mm

y
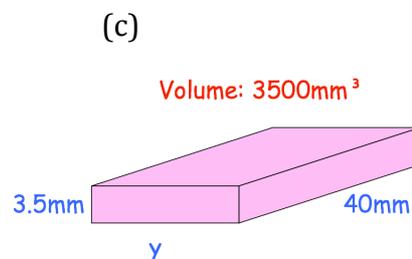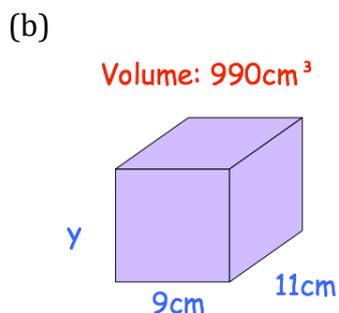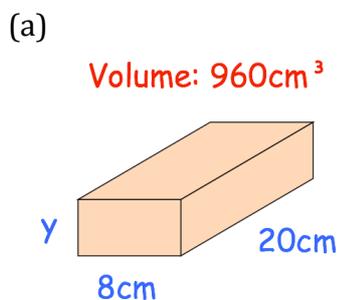
Question 5:   The volume of each cube is given.
             Find the length of each side, x.

(a)   Volume: 64m³

x

(b)   Volume: 1000cm³

x

(c)   Volume: 74.088cm³

x
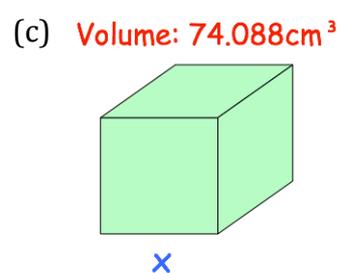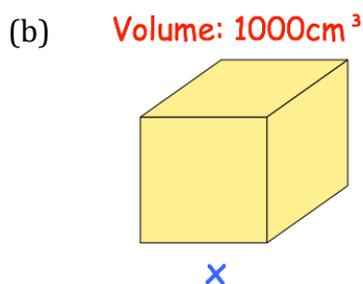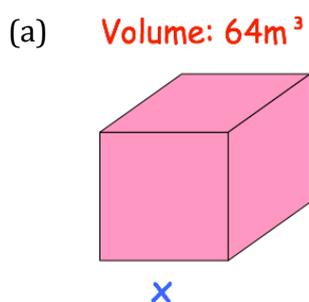
Apply

Question 1:   Find the volume of a water tank that is 80cm long, 40cm wide and 20cm high.

Question 2:   A wooden beam measures 4 inches wide by 4 inches high by 60 inches long.
             Work out the volume of the wooden beam.

Question 3:   The cube on the TV show "The Cube" is a cube with each side measuring 4m.
             Work out the volume of the cube.

Question 4: Both cuboids below have the same volume.
Find the height of cuboid B.

Cuboid A

15cm

3cm

20cm

Cuboid B

y

9cm

25cm
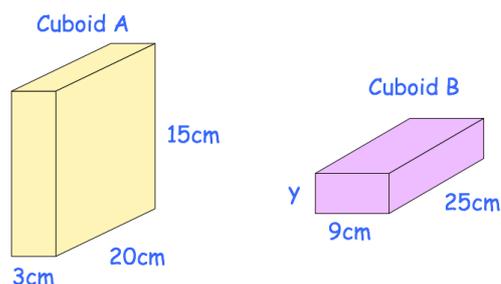
Question 5: The volume of the cube is twice the volume of the cuboid.
Find the length of the cuboid.

6cm

y

4cm

4cm
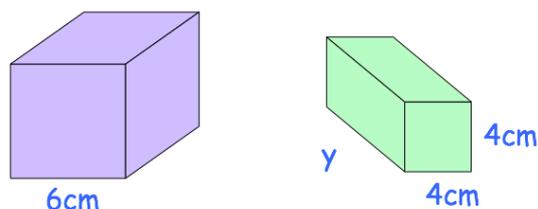
Question 6: The cuboid container below is used to store boxes.
Each box is a cube with side length 1m.
How many boxes can be stored in the container?

Container

2m

12m

5m

Box

1m

1m

1m
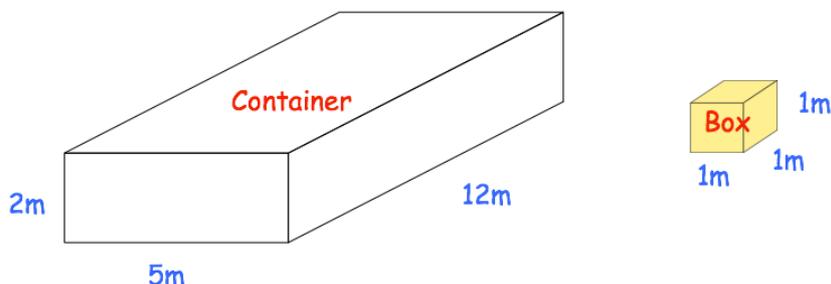
Question 7: The cuboid container below is used to store boxes.
Each box is a cube with side length 50cm.
How many boxes can be stored in the container?

Container

1.5m

6m

4m

Box

50cm

50cm

50cm
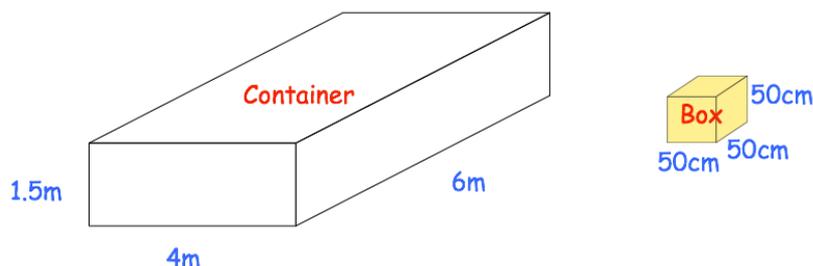
Question 8: An empty swimming pool is going to be filled with water.
The swimming pool is a cuboid, that is 25 metres long, 10 metres wide and
2 metres deep.
It is being filled at a rate of 800 litres per minute
Given $1m^3$ = 1000 Litres, how long it will take to fill the swimming pool?
Give your answer in hours and minutes.

Question 9: Shown is a net of a cuboid.
Calculate the volume of the cuboid.

24cm

16cm

12cm
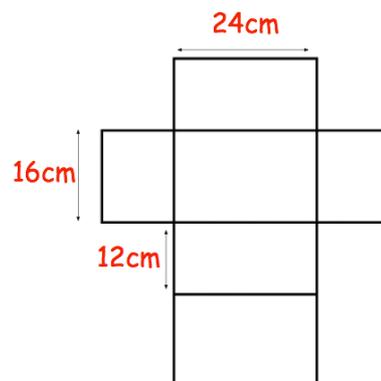
Question 10: A carton of orange juice is shown below.
The carton is in the shape of a cuboid.

20cm

orange
juice

12cm

8cm
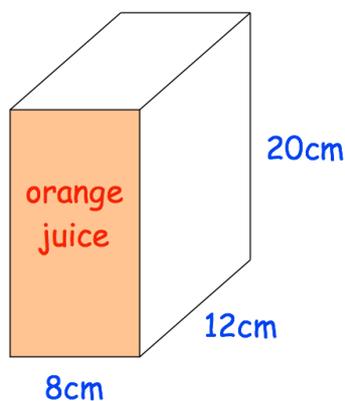
The depth of the orange juice is 6cm.

The carton is turned so that it stands the shaded (orange) face.

Work out the depth of the orange juice now.

Question 11: Peter is making green paint by mixing blue and yellow paint in a cuboid container, shown below.
The container has a width of 30cm and length of 40cm and is full.
He mixes blue paint and yellow paint in the ratio 2:3.
Peter uses 8.4 litres of blue paint.
Calculate the height of the container.

y

30cm

40cm

Answers

✔ ✗

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