Corbett maths

Examples
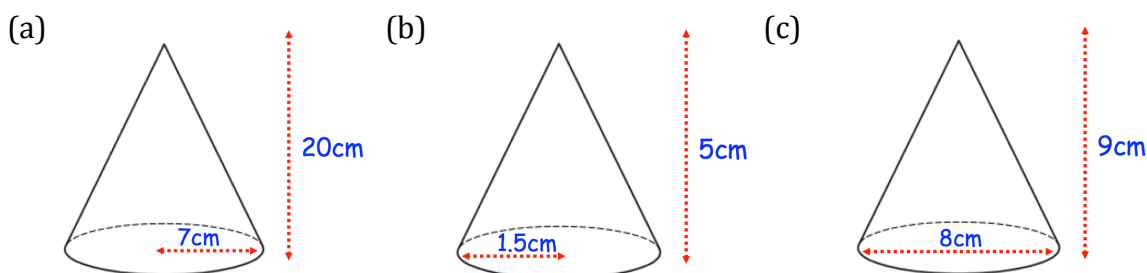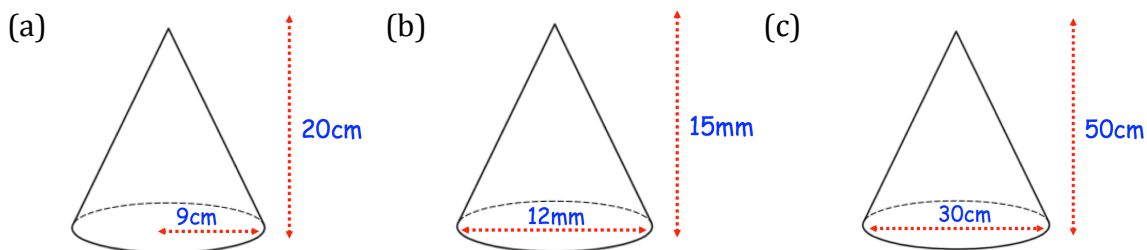
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Workout

Question 1: Work out the volumes of each of following cones.
Give each answer to one decimal place.

(a)

20cm

7cm

(b)

5cm

1.5cm

(c)

9cm

8cm

Question 2: Work out the volumes of each of the following cones.
Give each answer in terms of π

(a)

20cm

9cm

(b)

15mm

12mm

(c)

50cm

30cm

Question 3: Work out the vertical height of each cone.
Give each answer to a suitable degree of accuracy.

(a)

x

7cm

Volume = 1000cm³

(b)

x

2cm

Volume = 22cm³

(c)

x

2.8cm

Volume = 17cm³
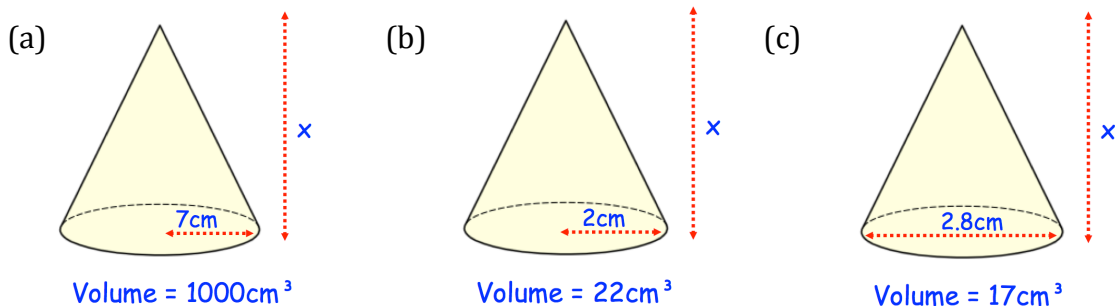
Question 4:   Calculate the length of the radius for each of these cones.
               Give each answer to a suitable degree of accuracy.

(a)

20cm

x

Volume = 195cm³

(b)

12cm

x

Volume = 300cm³

(c)

10cm

x

Volume = 880cm³
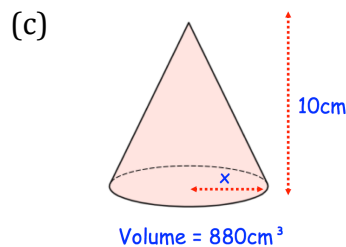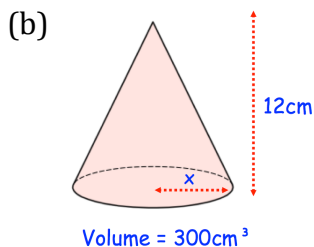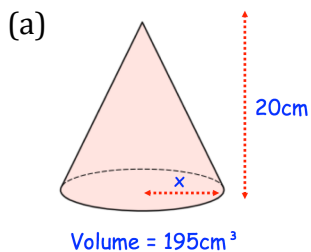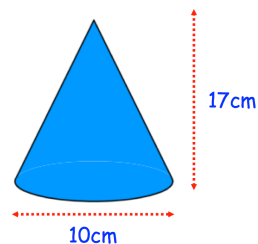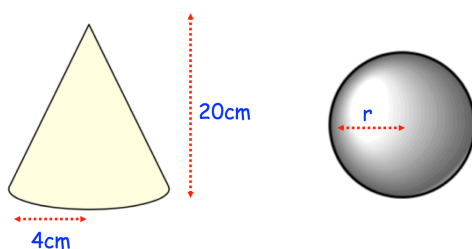
Apply

Question 1:   A solid is formed from a cylinder and a cone.
               Find the volume of the solid.
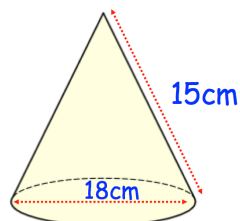
6cm

13cm

8cm
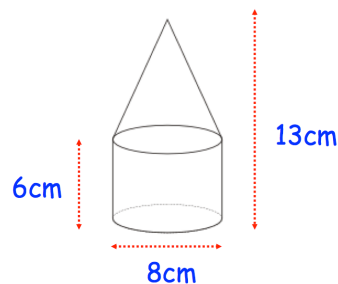
Question 2:   A solid cone is made from a material which has a density of 8.7 g/cm³.
               The dimensions of the cone are shown below.
               Find the mass of the cone.

17cm

10cm

Question 3:   The sphere and cone have an equal volume.
               Find the radius of the sphere.

20cm

r

4cm

Question 4:   Calculate the volume of the cone shown
               Give your answer to 1 decimal place.

15cm

18cm

Answers

Click here   Scan here