Volume of 3D shapes - basics

Name:	Class:	Date:	

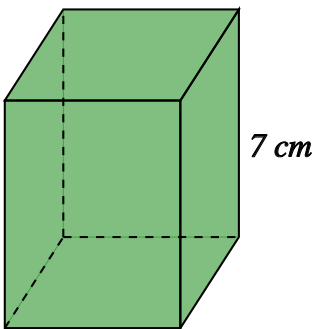| Mark	/ 10	%

1) The solid shape shown below is made from cubes of side one centimetre.   [1]
Find the volume of the solid.
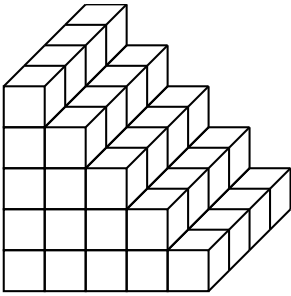
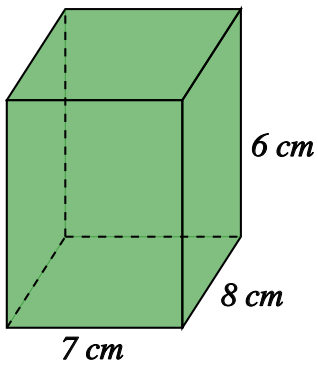**2)** Find the volume of the cuboid, given that the area of the base is 18 cm ^{2} and the height is 7 cm   [1]

7 cm

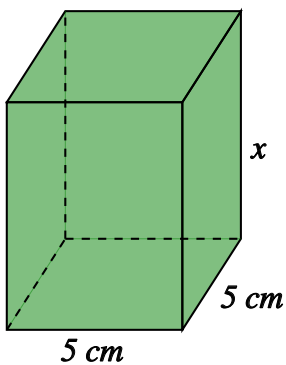**3)** Find the volume of the cuboid   [1]

6 cm

8 cm

7 cm

4) A cube has a length of 9 cm. Find its volume.   [1]

5) Find the missing dimension, given that the volume of the cuboid is 250 cm ^{3} [1]
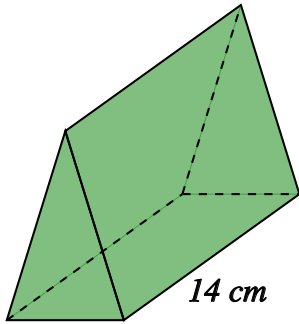

x

5 cm

5 cm

6) Find its length, given that the volume of a cube is 343 cm ^{3} [1]
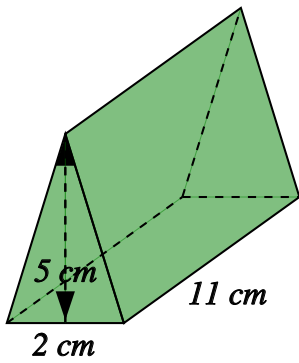
7) Find the volume of the triangular prism, given that the cross-sectional area is 4 cm ^{2} and the length is 14 cm

$$[1]$$

8) Find the volume of the triangular prism $$[1]$$

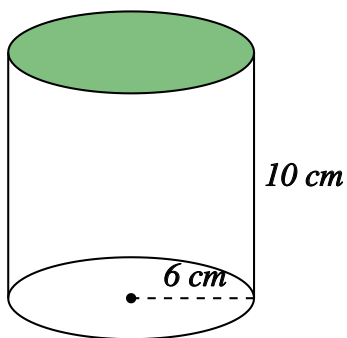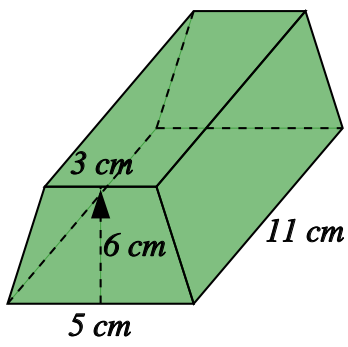**9)** Find the volume of the cylinder, rounding your answer to 3 significant figures $$[1]$$

10) Find the volume of the trapezoidal prism   [1]

Solutions for the assessment Volume of 3D shapes - basics

1) Volume = 60 cm ^{3}

2) Volume = 126 cm ^{3}

3) Volume = 336 cm ^{3}

4) Volume = 729 cm ^{3}

5) x = 10 cm

6) Length = 7 cm

7) Volume = 56 cm ^{3}

8) Volume = 55 cm ^{3}

9) 1130 cm ^{3}

10) Volume = 264 cm ^{3}