Skill 7.7 Surface area of solids

1 Find the surface area of these solids:

(a)

20 mm   6 mm
← 28 mm →

(b)

4 m   9 m
45°
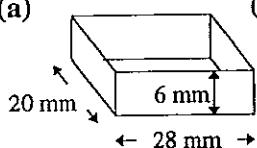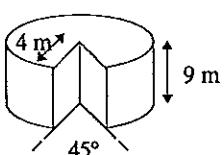
2 Find the total surface area of a sphere with radius of 83 cm.

Skill 7.8 Volume of solids

Find the volume of these solids:

1

12 m
← 18 m →

2

6 m   3 m
4 m

3

13 m

4

4 m
← 12 m →
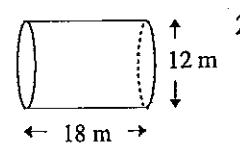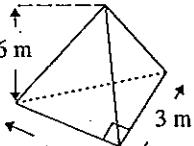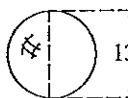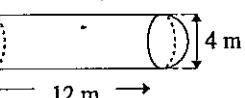
Skill 7.9 Working with solids

Find the length of the labelled sides:

1

A   5 m
B   3 m
C   2.8 m
D

(a) AC (b) BD
(c) AD

2

E   6 m
A   D
4 m
B ← 4 m → C
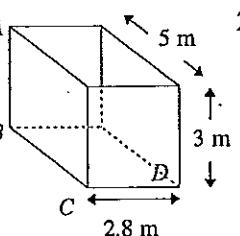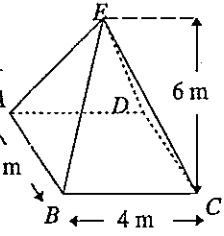
(a) AC (b) EC

Skill 7.7

1 (a) 1136 mm^2 (b) 357.88 m^2

2 86569.7 cm^2

Skill 7.8

1 2035.8 m^3 2 36 m^3 3 1150.3 m^3

4 167.55 m^3

Skill 7.9

1 (a) 5.83 m   (b) 5.73 m   (c) 6.47 m

2 (a) 5.66 m   (b) 6.63 m