Skill 7.7 Surface area of solids

1 Find the surface area of these solids:

(a)   (b)

20 mm   6 mm   4 m   9 m

← 28 mm →   45°
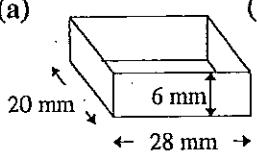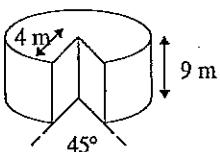
2 Find the total surface area of a sphere with radius of 83 cm.

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 →
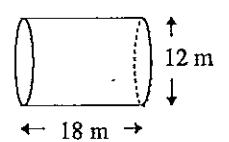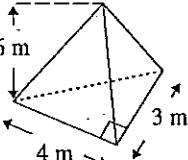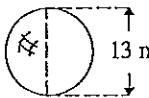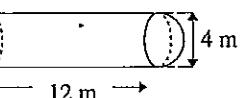
Skill 7.9 Working with solids

Find the length of the labelled sides:

1 A   5 m

B   3 m

D.

C

2.8 m

2

E

A   D   6 m

4 m

B ← 4 m → C

(a) AC (b) BD   (a) AC (b) EC

(c) AD
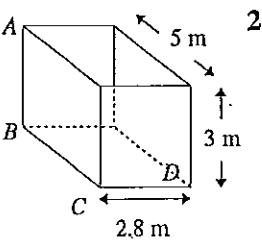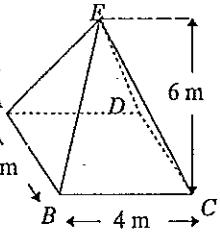
Skill 7.7

1. (a) 1136 mm²   (b) 357.88 m²
2. 86569.7 cm²

Skill 7.8

1. 2035.8 m³   2. 36 m³   3. 1150.3 m³
4. 167.55 m³

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