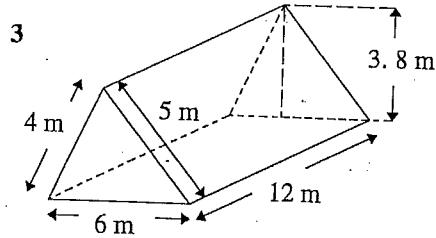
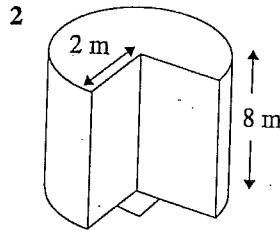
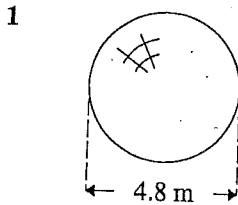


A Measurement: Surface area of solids

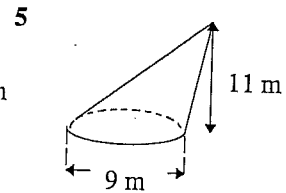
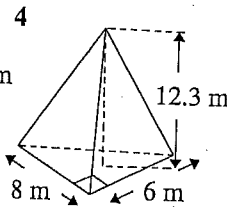
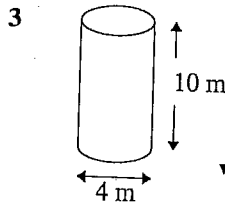
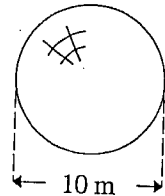
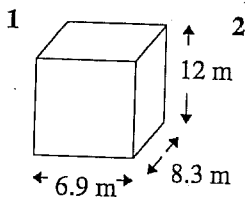
Find the total surface area of these solids:



Skill 7.7

B Measurement: Volume of solids

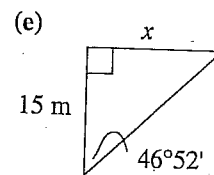
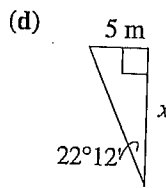
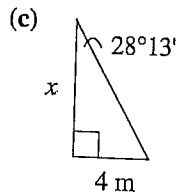
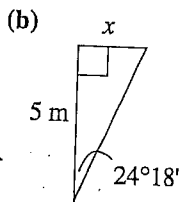
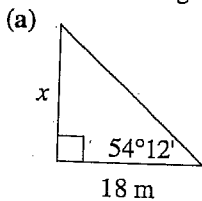
Find the volume of these solids:



Skill 7.8

C Trigonometry: Using tan to find side lengths

1 Find the missing sides:



Skill 8.3

- 2 A hiker sights the top of a water tower. If the angle of elevation is $23^\circ 18'$, 300 m from the base of the tower find the height of the tower.

D Chance and data: Scatter plots and lines of best fit

The following information relates the length of steel bars (cm) to their weight (g).

- Plot the data on a scatter plot and find the equation of the line of best fit.
- Use this equation to estimate the weight of a bar of length of 100 cm.

Length	Weight
5	150
20	250
24	290
40	360
54	410
60	450

Skill 9.7

E Chance and data: Probability of a single and complementary events

Disks with the following numbers are placed in a bag:

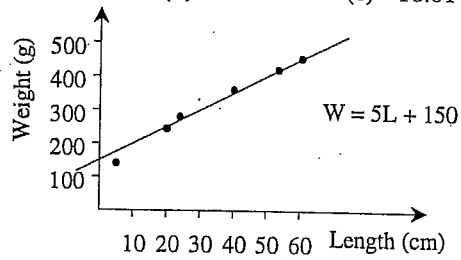
(1, 1, 2, 3, 3, 4, 4, 5, 5, 5, 5)

- Find the probability of selecting an even numbered disk.
- Describe the event which is complementary to 1 and find its probability.
- Find the probability of choosing a disk which is less than 3 or divisible by 5.

Skill 9.8

Worksheet 31

- A** 1 72.38 m^2 2 126.25 m^2 3 202.8 m^2
B 1 687.24 m^3 2 523.6 m^3 3 125.7 m^3
4 98.4 m^3 5 233.3 m^3
C 1 (a) 24.96 m (b) 2.26 m (c) 7.45 m
2 (a) 129.2 m (b) 12.25 m (c) 16.01 m
D 1



- 2 650 g
- E** 1 $\frac{1}{4}$ 2 Selecting an odd numbered disk $\frac{3}{4}$
3 $\frac{2}{3}$