**1.**      A parcel is in the shape of a cuboid.
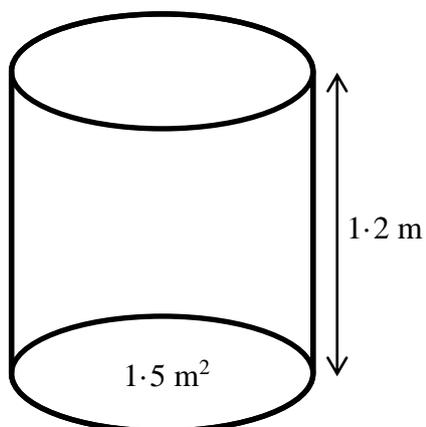
It is 35 centimetres long, 20 centimetres wide and 12 centimetres high, as shown below.
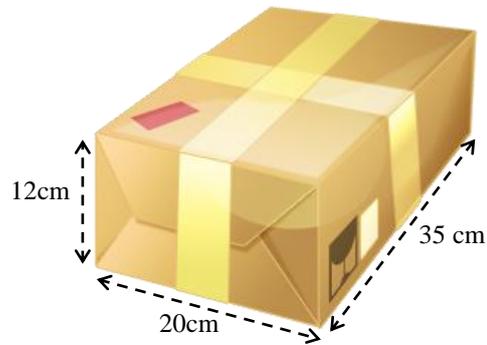


Find the surface area of the cuboid shown.

**2.**      I have a large container in my garden for collecting water.

The area of the base of the container is 1·5 square metres.

The height of the container is 1·2 metres.



Calculate the volume of the container.

**3.** A company is designing a new logo.

Part of the design is shown below.

Copy and complete this shape so that it has rotational symmetry of order 4, about 0.



**4.** The number of people attending an emergency dental clinic over the course of three weeks was recorded. Here are the results

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13 | 12 | 5 | 19 | 15 | 10 | 12 | 22 |
| 18 | 13 | 12 | 21 | 9 | 11 | 16 | |

Complete the frequency table for these results.

| Score | Tally | Frequency |
|---|---|---|
| 1 – 5 | | |
| | | |
| | | |
| | | |
| | | |
| | | Total = |

**5.** Ten people were asked how long they had waited in a queue to get into an exhibition.

The time, in minutes, was recorded and the results are shown below.

| 14 | 23 | 21 | 15 | 12 |
|----|----|----|----|----|
| 22 | 26 | 22 | 17 | 16 |

**(a)** Calculate the mean time taken.

**(b)** Calculate the range.

**6.** A group of sixty students were asked what there favourite 'soap' was.
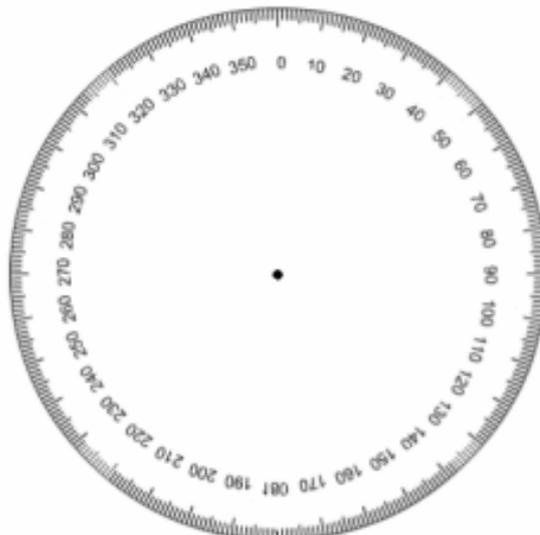
The table below shows the results.

| Soap | No. of students |
|------|-----------------|
| Eastenders | 15 |
| Emmerdale | 20 |
| Corrie | 25 |

Construct a pie chart to show this information.

To help you complete the pie chart, copy this table and fill in the blanks.

| Soap | No. of pupils | Angle at centre |
|------|---------------|-----------------|
| Eastenders | 15 | |
| Emmerdale | 20 | |
| Corrie | 25 | |

Now complete the pie chart.

**7**   As people left a travel agent they were asked what kind of holiday they had

booked. Here is what they said:



| Package Holidays: | 24 |
|---|---|
| Cruise: | 13 |
| Camping: | 6 |
| Activity: | 7 |

What is the probability that someone chosen at random will have booked a cruise?

**8.**   A card is chosen from this set of cards.



What is the probability that it will **not** be a face card?