

Q1. (2018)

16 Some concrete has volume 3.8 m^3

(A)

16 (a) The density of the concrete is 2400 kg/m^3

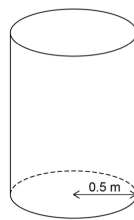
Work out the mass of the concrete.

[2 marks]

Answer _____ kg

(B)

16 (b) The 3.8 m^3 of concrete is made into the shape of a cylinder.
The base has radius 0.5 metres.



Work out the height of the cylinder.

[2 marks]

Answer _____ m

Q2. (2020)

26 Edith's van can safely carry a maximum load of 920 kilograms.

She wants to use her van to carry

30 sacks of potatoes, each of mass 25 kilograms to the nearest kilogram

and

20 sacks of carrots, each of mass 7.5 kilograms to 1 decimal place.

Can she definitely use her van safely in one journey?

You **must** show your working.

[4 marks]