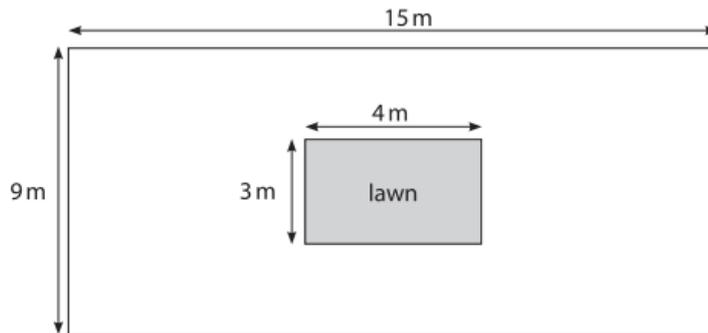# Functional Skills Maths | Level 1
Calculator Long Question Scaffolded Paper 1

1.

Alfie sells flooring for playgrounds.
He has this diagram of a playground.

The playground is rectangular 9 m by 15 m.
The lawn is rectangular 3 m by 4 m.

Alfie will put flooring on all the space inside the playground but not on the lawn.
The flooring costs £36 per square metre.

Work out the total cost of the flooring.

(5)

a. Calculate the total area of the playground in m².

b. Calculate the area of the lawn in m².

c. Calculate the area that will be covered in flooring in m².

d. Work out the cost of the flooring.

2.

Sam is a manager in an office.
She wants to buy 14 new chairs.

Each chair costs £73
Sam will also be charged 20% VAT on the cost of the chairs.

Sam has £1200 to buy the chairs.

Is £1200 enough to buy the 14 chairs?

(4)

a. Work out 20% of £73 to find the VAT.

b. Add the VAT to the price of a chair.

c. Find the price of 14 chairs including VAT.

d. Will £1200 be enough to buy 14 chairs?

3.

Seenal is a baker.
She buys flour in 50 kg bags.

The table shows the number of 50 kg bags of flour she used to make loaves in each of the last 4 weeks.

week	1	2	3	4
number of bags of flour	7	14	8	13

Seenal will make 2400 loaves in week 5
Each of these loaves will need 250 g of flour.

Seenal works out the weekly mean number of 50 kg bags of flour used in these 5 weeks.
She will use this figure for future orders.

Work out the weekly mean number of 50 kg bags of flour used in these 5 weeks.

(5)

a. What is 250g in kilograms?

b. Calculate how much flour Seenal used in week 5 in kg.

c. Work out how many bags of flour Seenal used in week 5.

d. Work out the mean number of bags of flour used for the five weeks.

4.

James wants to buy a house.
The price of the house is a quarter of a million pounds.

James has to pay a deposit for the house.
The deposit is 15% of the price of the house.

James already has part of the deposit.
He has £32 000

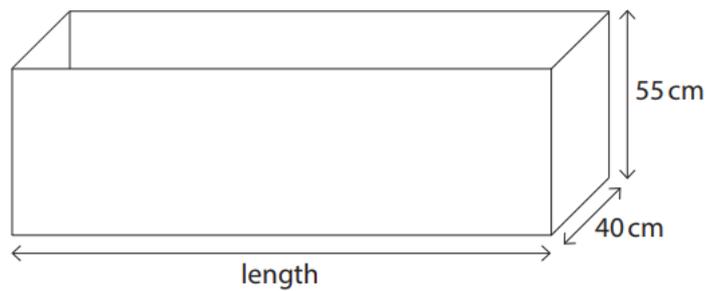How much **more** money does James need for the deposit?

(4)

a. Write a quarter of a million pounds in figures.

b. Work out 15% of a quarter of a million pounds?

c. Calculate how much more money James needs.

5.

Dennis is making a container for tomato plants.
The container will be in the shape of a cuboid.

55 cm

40 cm

length

The capacity of the container will be 180 litres.

1 litre = 1000 cm³

Work out the length of the container.
Give your answer to the nearest whole centimetre.

(4)

a. What is the formula for the volume of a cuboid?

b. Work out 180 litres in cm³.

c. Divide the previous answer by the height.

d. Divide the previous answer by the width.