

Non-calculator Questions

City & Guilds

1.

A man working in a warehouse is only allowed to lift boxes that weigh up to 25 kg.



Which of these boxes is he allowed to lift?
Tick the boxes.

1 mark

2.

A farmer collects sacks of cattle feed from a supplier.

She needs to bring home as many of the sacks as she can in her truck.



Her truck holds 700kg in weight.

What number of sacks can she collect?

Space for working

$$700 \div 25 = 28$$

.....28..... sacks

1 mark

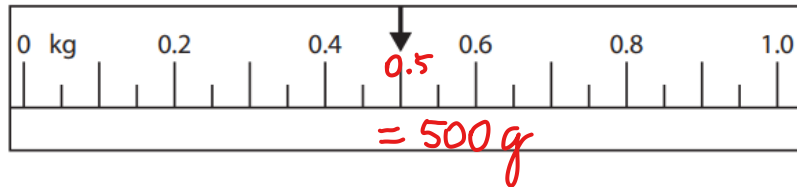
Calculator Questions

Edexcel

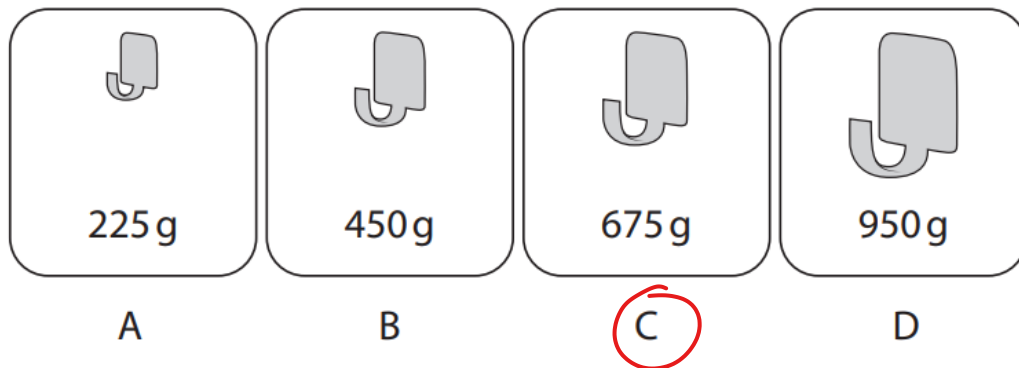
1.

Riya needs a hook to hang a picture on a wall.

She weighs the picture.



The labels show the heaviest weight each hook can hold.



Riya buys the smallest hook that will hold the picture.

Which hook does Riya buy?

Show why you think this.

(2)

Show your working and your answer in the box below.

C is the smallest that holds 500g.

NCFE

2.

Daniel also buys some sweets.

He buys the heaviest bag.

Which bag is the heaviest?

Tick (✓) your answer.

[1 mark]



500 g
0.5 kg
A ()



1.2 kg
B (✓)



0.25 kg
C ()



750 g
0.75 kg
D ()

3.

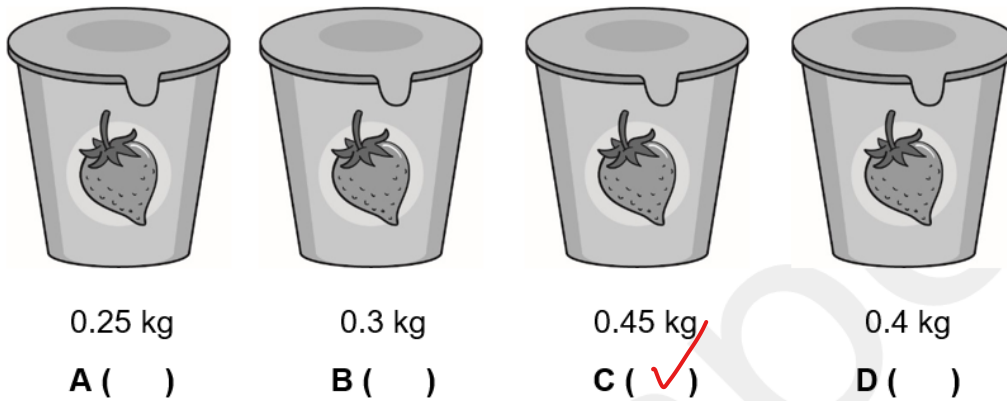
The restaurant sells fruit pots in different weights.

Alex buys the heaviest pot.

Which pot does Alex buy?

Tick (✓) your answer.

[1 mark]



0.25 kg 0.3 kg 0.45 kg 0.4 kg
A () B () C (✓) D ()

4.

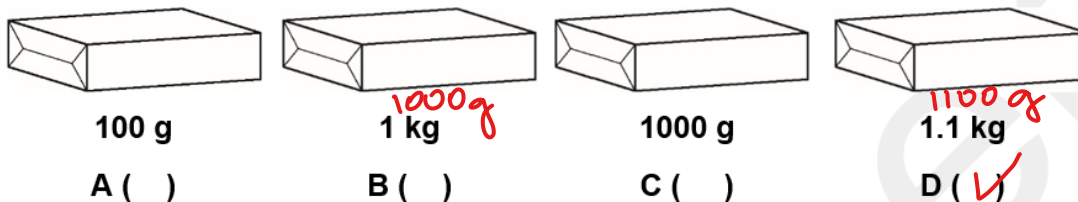
Alex needs a new packet of printer paper.

He opens the heaviest packet.

Which packet does he open?

Tick (✓) your answer.

[1 mark]



100 g 1 kg 1000 g 1.1 kg
A () B () C () D (✓)

5.

A lemon cake and a ginger cake are left at the end of the day.

The lemon cake weighs 0.6 kg

The ginger cake weighs 590 g → 0.59 kg

Sarah thinks 590 g is heavier than 0.6 kg

Is she correct?

Give a reason for your answer.

[2 marks]

No, 590g is equal to 0.59kg
which is lighter than 0.6kg.

6.

Alfie gets weighed every time he goes to see the vet.

visit 1
3.2 kg

visit 2
3.21 kg

visit 3
3.25 kg

visit 4
3.09 kg

Which is the heaviest weight?

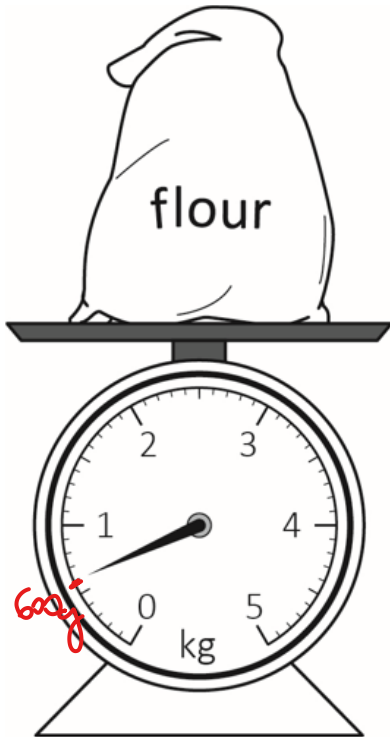
[1 mark]

3.25 kg

7.

Jamie needs some flour.

He weighs the flour he has.



He thinks he has more than 700 g

Is he correct?

Give a reason for your answer.

[3 marks]

No, it weighs 600g.

City & Guilds

8.

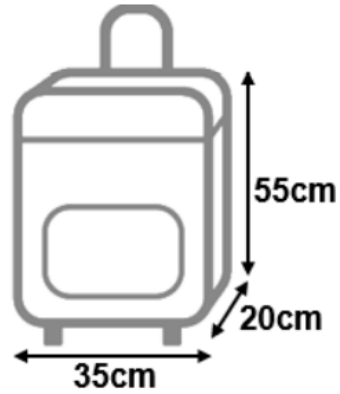
a)

An airline allows passengers to take hand luggage with these **maximum** measurements on a plane.

A passenger wants to take her bag on the plane.

Her bag measures 33cm wide and 19cm deep.

She measures the height of her bag.



Can she take her bag on the plane?
Give a reason for your answer.
Use numbers to help you explain.

Yes/No..... *Yes*

Reason *48 is smaller than 55*

.....
.....
.....

2 marks

b)

The passenger will send her suitcase with a luggage company.
She weighs her suitcase.



She checks the charges on this table

Luggage Company Charges			
Weight	Up to 24kg	Up to 32kg	Over 32kg
Price	£34.00	£37.00	£37.25 + £3.20 per additional kg

What will the luggage company charge?

Show your working

$$\begin{array}{r}
 37.25 \\
 + 3.20 \\
 \hline
 40.45
 \end{array}$$

£ 40.45

2 marks

9.

A duty-free shop has a delivery of chocolates.
The manager asks a sales assistant to display the chocolates in order of weight starting with the heaviest.



1kg



850g



369g



575g



150g

In which order should the sales assistant display the chocolates?

1kg 850g 575g 369g 150g 1 mark

10.

A playgroup plans to hold a Coffee Morning to raise money.
The play leader needs to buy more cups, sugar and milk.

She says we need 250 cups.
They have these cups.



a) How many more cups do they need?

Space for working out.

$$11 \times 9 = 99$$
$$250 - 99 = 151$$

151 cups

2 marks

b)

She needs to work out how many bags of sugar she needs for 250 cups.
She allows one spoonful of sugar for each cup.



one spoonful of sugar weighs 4 grams

How many bags of sugar should the play leader buy?

Show your working out.

$$250 \times 4 = 1000 \text{ g}$$
$$1000 \div 500 = 2$$

.....2..... bags

3 marks

11.a)

Meg's dog weighs 22kg

She needs to know how much to feed her dog.

She uses this weight chart below to help her:

Dog's weight (kg)	Number of tins of food per year
10 – 14	320
15 – 19	480
<u>20 – 24</u>	<u>640</u>
25 – 29	800

There are 12 tins in each packHow many packs will Meg need to buy for a year?

(3 marks)

Show your workings.

$$640 \div 12 = 53.33\dots$$

54 packs

b)

A month later, the vet weighs the dog. He has gained 100 grams in weight.

(2 marks)

Meg thinks he now weighs over 23kg.

Is Meg correct? Explain your answer.

Show your workings.

$$23 - 22 = 1 \text{ kg} = 1000 \text{ g}$$

No