FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 1

Weight

Materials

- You **cannot** use a calculator for **questions** with this symbol.

Instructions

- Answer **all** questions.
- Answer questions on separate paper.

Information and Advice

- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.

Q1 Convert these weights in grams (g) into kilograms (kg).

1(a) 2000 g

[1 mark]

1(b) 1000 g

[1 mark]

1(c) 300 g

[1 mark]

1(d) 800 g

[1 mark]

1(e) 390 g

[1 mark]

1(f) 2620 g

[1 mark]

1(g) 4 g

[1 mark]

1(h) 38 g

[1 mark]

1(i) 21119 g

[1 mark]

1(j) 616 g

[1 mark]

10

Q2 Convert these weights in kilograms (kg) into grams (g).

2(a) 3 kg

[1 mark]

2(b) 8 kg

[1 mark]

2(c) 1.4 kg

[1 mark]

2(d) 2.21 kg

[1 mark]

2(e) 0.986 kg

[1 mark]

2(f) 0.024 kg

[1 mark]

2(g) 3.981 kg

[1 mark]

2(h) 26.2 kg

[1 mark]

2(i) 311 kg

[1 mark]

2(j) 0.002 kg

[1 mark]

10

Q3 Add these weights together:

3(a) 300 g + 200 g

[1 mark]

3(b) 250 g + 550 g

[1 mark]

3(c) 2 kg + 5 kg

[1 mark]

3(d) 1024 g + 2998 g

[1 mark]

3(e) 2.1 kg + 9.4 kg

[1 mark]

3(f) 0.988 kg + 0.221 kg

[1 mark]

3(g) 160 g + 24 g

[1 mark]

3(h) 0.028 kg + 0.009 kg

[1 mark]

3(i) 24351 g + 28904 g

[1 mark]

3(j) 44.216 kg + 25.414 kg

[1 mark]

10

Q4 Carlos buys these things from the supermarket:
400 g bread
150 g butter
568 g milk
175 g cheese
100 g ham
65 g chocolate bar

4(a) What is the combined weight of the bread, butter and cheese?

[2 marks]

4(b) What is the combined weight of the butter, ham and chocolate bar?

[2 marks]

4(c) What is the total weight of Carlos' shopping?

[2 marks]

4(d) Carlos plans to eat the chocolate bar on his way home. He packs everything else into a carrier bag. The carrier bag can hold 1500 g without breaking. Will it break?

[2 marks]

Q5 Sergio is making an ice sculpture and keeps track of the amount of ice he removes from the block every day.
Day 1 – 500 g
Day 2 – 220 g
Day 3 – 350 g
Day 4 – 90 g

5(a) The block of ice weighed 2000 g at the start. How much did it weigh after day 1?

[1 mark]

5(b) How much did it weigh after days 2, 3 and 4?

[3 marks]

5(c) After 5 days, the sculpture is finished. It weighs 500 g. How much ice was removed on day 5?

[1 mark]

Q6 Tomas has four types of plant pot with different weights:
A – 500 g – Tomas has 3 of them
B – 1600 g – Tomas has 8 of them
C – 100 g – Tomas has 25 of them
D – 5000 g – Tomas has 2 of them

6(a) What is the total weight of Tomas' type A plant pots?

[1 mark]

6(b) What is the total weight of Tomas' type B and type D plant pots?

[3 marks]

6(c) What is the total weight of all of Tomas' plant pots?

[2 marks]

6(d) What is the difference between the weight of Tomas' type B plant pots and type C plant pots?

[1 mark]

6(e) Which is heavier - Tomas' type A and type D plant pots combined or Tomas' type B and type C plant pots combined?

[3 marks]

6(f) Tom has a shelf in his shed that can support 3500 g of weight. Can he put 2 type B plant pots and 4 type C plant pots on this shelf?

[3 marks]

Q7 5.04 kg of lasagne is to be split between a set number of people at a school dinner. However, until the register is taken in the morning, the catering staff do not know how many people it will be split between.

7(a) If it is split between 16 people, how much will each person get?

[1 mark]

7(b) If it is split between 18 people, how much will each person get?

[1 mark]

7(c) If it is split between 20 people, how much will each person get?

[1 mark]

7(d) If it is split between 21 people, how much will each person get?

[1 mark]

7(e) If it is split between 24 people, how much will each person get?

[1 mark]

Q8 Add these weights together:

8(a) 400 g + 2 kg

[2 marks]

8(b) 3 kg + 600 g

[2 marks]

8(c) 1.1 kg + 450 g

[2 marks]

8(d) 1550 g + 0.85 kg

[2 marks]

8(e) 641 g + 0.589 kg

[2 marks]

8(f) 24 g + 0.11 kg

[2 marks]

8(g) 11 g + 0.025 kg

[2 marks]

8(h) 0.844 kg + 1623 g

[2 marks]

8(i) 23.454 kg + 11225 g

[2 marks]

8(j) 151 g + 0.96 kg

[2 marks]

Q9 Clementine wants to buy 1.5 kg of potatoes from the supermarket. They are sold in bags of the following weights:
A – 1 kg
B – 500 g
C – 12.5 kg
D – 250 g
E – 2 kg

9(a) State why Clementine should not buy bag C.

[1 mark]

9(b) List all of the ways for Clementine to buy exactly 1.5 kg.

[3 marks]

9(c) Clementine buys bag E. How much extra weight of potatoes does she have? Give your answer in grams.

[2 marks]

Q10 Elsie works for a logistics company. Today she is transporting packages that people have ordered online. She has a large number of five different types of package:
A – 50 kg
B – 500 g
C – 50 g
D – 1 kg
E – 4 kg
A small truck can carry 2000 kg, a medium truck can carry 5000 kg and a large truck can carry 10000 kg.

10(a) Elsie intends to send 25 of package A on a small truck. Will this be too heavy?

[2 marks]

10(b) Elsie instead decides to put 34 of package A on the small truck and fills the rest of the space with package Es. How many package Es will be on the truck?

[3 marks]

10(c) How many times bigger is package A than package B?

[2 marks]

10(d) Elsie says "I can fit 150000 package Cs on a large truck." Is she correct?

[3 marks]

Q11 Mollie has three containers of sugar, with the following weights of sugar in them:
A – 1.5 kg
B – 500 g
C – 1.2 kg

11(a) Container B is two thirds full. How much sugar can it hold when full?

[2 marks]

11(b) Sugar is poured from container A to container B until container B is full. What is the difference between the amount of sugar left in container A and the amount in container C?

[4 marks]

11(c) Half of the contents of container C are now poured into container A. How much sugar is in container A now?

[2 marks]

11(d) Mollie is baking a cake. The recipe calls for 1100 g of sugar. Is there enough left in containers B and C for this?

[3 marks]

11(e) Mollie decides instead to get all 1100 g of the sugar from container A. How much is left in container A now?

[2 marks]