



FUNCTIONAL SKILLS MATHEMATICS

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

Level 2

Unit Conversions

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 measurements in centimetres (cm) into metres (m).

1(a) 25 cm [1 mark]

1(b) 38 cm [1 mark]

1(c) 62 cm [1 mark]

1(d) 44 cm [1 mark]

1(e) 197 cm [1 mark]



Q2 Convert these measurements in metres (m) into centimetres (cm).

2(a) 50 m [1 mark]

2(b) 7.2 m [1 mark]

2(c) 1.98 m [1 mark]

2(d) 455 m [1 mark]



Q3 Convert these measurements in metres (m) into kilometres (km).

3(a) 1126 m [1 mark]

3(b) 3257 m [1 mark]

3(c) 2164 m [1 mark]

3(d) 9333 m [1 mark]

3(e) 933 m [1 mark]



Q4 Convert these measurements in kilometres (km) into metres (m).

4(a) 0.294 km [1 mark]

4(b) 15 km [1 mark]

4(c) 0.013 km [1 mark]

4(d) 3550 km [1 mark]



Q5 Convert these distances in centimetres (cm) into millimetres (mm).

5(a) 1 cm [1 mark]

5(b) 5.8 cm [1 mark]

5(c) 240 cm [1 mark]

5(d) 48.1 cm [1 mark]

5(e) 123.3 cm [1 mark]



Q6 Convert these distances in millimetres (mm) into centimetres (cm).

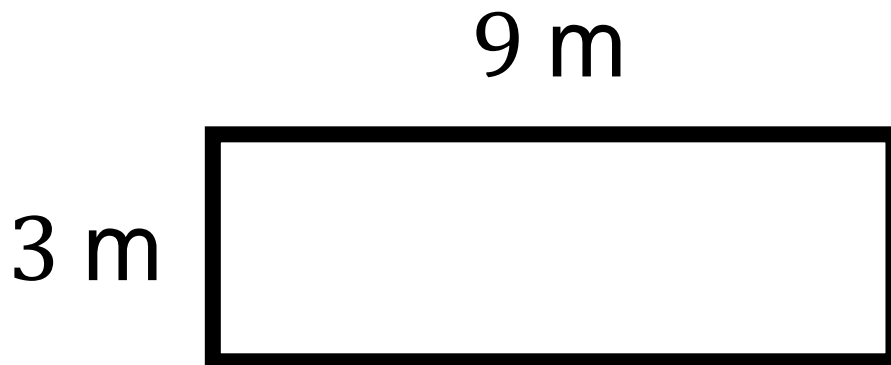
6(a) 62 mm [1 mark]

6(b) 190 mm [1 mark]

6(c) 993 mm [1 mark]

6(d) 10000 mm [1 mark]

Q7 James has a patio in his back garden.



7(a) Find the area of the patio in square metres.

[1 mark]

7(b) By converting the length of each side into centimetres, find the area of the patio in square centimetres.

[2 marks]

7(c) Hence, find the number of paving slabs needed to cover the patio, if each paving slab has an area of 3600 cm^2 .

[2 marks]



Q8 Convert these weights in grams (g) into kilograms (kg).

8(a) 2000 g [1 mark]

8(b) 38 g [1 mark]

8(c) 300 g [1 mark]

8(d) 616 g [1 mark]

8(e) 21119 g [1 mark]



Q9 Convert these weights in kilograms (kg) into grams (g).

9(a) 4 kg [1 mark]

9(b) 0.9 kg [1 mark]

9(c) 208 kg [1 mark]

9(d) 31.256 kg [1 mark]

Q10 Four university students are weighed as part of an eligibility test for a medical experiment:

Alice – 74.1 kg

Ben – 82.4 kg

Caroline – 76.2 kg

Des – 95.3 kg

10(a) What is the weight difference, in grams, between Des and Caroline?

[2 marks]

10(b) If Ben eats a 500 g burger after being weighed, what is his new weight in kilograms?

[2 marks]

10(c) To be eligible for the study, you must weigh within 2500 g of 75 kg. Which students are eligible to participate?

[3 marks]



Q11 Convert these measurements of capacity from millilitres (ml) to litres (L).

11(a) 3000 ml **[1 mark]**

11(b) 124 ml **[1 mark]**

11(c) 4200 ml **[1 mark]**

11(d) 19 ml **[1 mark]**

11(e) 19526 ml **[1 mark]**



Q12 Convert these measures of capacity from litres (L) to millilitres (ml)

12(a) 0.5 L **[1 mark]**

12(b) 49 L **[1 mark]**

12(c) 0.814 L **[1 mark]**

12(d) 16.52 L **[1 mark]**



Q13 Convert the following amounts of pounds (£) into pence (p).

13(a) £2.00 [1 mark]

13(b) £1.29 [1 mark]

13(c) £0.24 [1 mark]

13(d) £31.68 [1 mark]

13(e) £1129.99 [1 mark]



Q14 Convert the following amounts of pence (p) into pounds (£).

14(a) 108 p [1 mark]

14(b) 4000 p [1 mark]

14(c) 29 p [1 mark]

14(d) 1138 p [1 mark]

Q15 In a supermarket, Tammy notices that the prices of fruit and vegetables are all given in pence.

15(a) A punnet of cherries is 155 p. What is this in pounds?

[1 mark]

15(b) A cucumber is 68 p. How much, in pounds, do two cucumbers cost?

[2 marks]

15(c) Red onions are 23 p per 100 g. Tammy buys 500 g. How much, in pounds, does this cost?

[2 marks]

15(d) Avocados are 560 p per kilogram. Tammy notices a 1 kg joint of beef priced at £6.90 on the opposite aisle. Which is more expensive per kilogram?

[2 marks]

Q16 Convert these weights in kilograms (kg) into pounds (lb).
1 kg = 2.2 lb

16(a) 1 kg [1 mark]

16(b) 6 kg [1 mark]

16(c) 2 kg [1 mark]

16(d) 10 kg [1 mark]

16(e) 35 kg [1 mark]

Q17 Convert these distances in feet (ft) into centimetres (cm).
1 ft = 30 cm

17(a) 1 ft [1 mark]

17(b) 8 ft [1 mark]

17(c) 21 ft [1 mark]

17(d) 3.5 ft [1 mark]

Q18 Convert these capacities in gallons into litres (L).
1 gallon = 4.5 L

18(a) 1 gallon [1 mark]

18(b) 5 gallons [1 mark]

18(c) 9 gallons [1 mark]

18(d) 30 gallons [1 mark]

18(e) 19 gallons [1 mark]

Q19 Convert these distances in miles (mi) into kilometres (km)
1 mi = 1.6 km

19(a) 5 mi [1 mark]

19(b) 28 mi [1 mark]

19(c) 44 mi [1 mark]

19(d) 3.6 mi [1 mark]

Q20 For this question, you will find these conversions helpful.

1 oz = 28 g

1 mi = 1.6 km

1 in = 2.5 cm

1 pt = 568 ml

James is baking, but his scales give readings in grams (g) while his recipe is in ounces (oz). His recipe says he needs these ingredients:

5 oz flour

3 oz sugar

4 oz butter

$\frac{1}{2}$ pt milk

2 eggs

20(a) Convert the amounts of flour, sugar and butter to grams (g).

[3 marks]

20(b) James has a measuring jug that is in millilitres (ml) only. How much milk does he need in millilitres (ml)?

[1 mark]

20(c) James realises he does not have enough milk, so he drives to the supermarket to buy more. The supermarket is 0.9 miles (mi) away – how far is this in kilometres (km)?

[1 mark]

20(d) Later, the recipe calls for the dough to be rolled to a thickness of $\frac{1}{4}$ inch (in). What is this in centimetres (cm)?

[1 mark]