



FUNCTIONAL SKILLS MATHEMATICS

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

Level 1

Length

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 into metres.

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]

1(f) 614 cm [1 mark]

1(g) 50 cm [1 mark]

1(h) 720 cm [1 mark]

1(i) 1346 cm [1 mark]

1(j) 7000 cm [1 mark]



Q2 Convert these measurements in metres into centimetres.

2(a) 3.22 m [1 mark]

2(b) 1.14 m [1 mark]

2(c) 8.46 m [1 mark]

2(d) 6.77 m [1 mark]

2(e) 1.9 m [1 mark]

2(f) 0.74 m [1 mark]

2(g) 0.15 m [1 mark]

2(h) 0.3 m [1 mark]

2(i) 12.99 m [1 mark]

2(j) 36 m [1 mark]



Q3 Convert these measurements in metres into kilometres.

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]

3(f) 16425 m [1 mark]

3(g) 117194 m [1 mark]

3(h) 210 m [1 mark]

3(i) 3300 m [1 mark]

3(j) 355 m [1 mark]



Q4 Convert these measurements in kilometres into metres.

4(a) 3.114 km [1 mark]

4(b) 2.687 km [1 mark]

4(c) 7.228 km [1 mark]

4(d) 6.29 km [1 mark]

4(e) 1.3 km [1 mark]

4(f) 0.997 km [1 mark]

4(g) 0.244 km [1 mark]

4(h) 0.3 km [1 mark]

4(i) 9 km [1 mark]

4(j) 121.319 km [1 mark]

Q5 Convert these measurements in centimetres into kilometres.

5(a) 111642 cm [1 mark]

5(b) 131072 cm [1 mark]

5(c) 262144 cm [1 mark]

5(d) 524288 cm [1 mark]

5(e) 1048576 cm [1 mark]

5(f) 29451 cm [1 mark]

5(g) 644 cm [1 mark]

5(h) 56000 cm [1 mark]

5(i) 912844 cm [1 mark]

5(j) 12388400 cm [1 mark]

Q6 Convert these measurements in kilometres into centimetres.

6(a) 3 km [1 mark]

6(b) 6 km [1 mark]

6(c) 9.22 km [1 mark]

6(d) 6.144 km [1 mark]

6(e) 0.9876 km [1 mark]

6(f) 0.000251 km [1 mark]

6(g) 0.6 km [1 mark]

6(h) 3.1 km [1 mark]

6(i) 8.84 km [1 mark]

6(j) 31.173464 km [1 mark]



Q7 The heights of five children are as follows:

Ellie – 1.3 m

Alice – 1.0 m

Parth – 1.4 m

Saul – 1.2 m

Arianna – 1.1 m

7(a) What is the combined height of the children?

[2 marks]

7(b) What is the height difference between the tallest child and the shortest child?

[2 marks]



Q8 The following lists the lengths of some tape measures in centimetres. Jack buys two of tape measure E and one of tape measure C and uses them to make a much longer tape measure. How long is the new tape measure?

A – 100 cm

B – 250 cm

C – 1000 cm

D – 750 cm

E – 400 cm

[2 marks]

Q9 Add these lengths together.

9(a) 3.24 m + 9.66 m

[1 mark]

9(b) 22 cm + 38 cm

[1 mark]

9(c) 4.1 km + 8.8 km

[1 mark]

9(d) 3.3 m + 21 cm

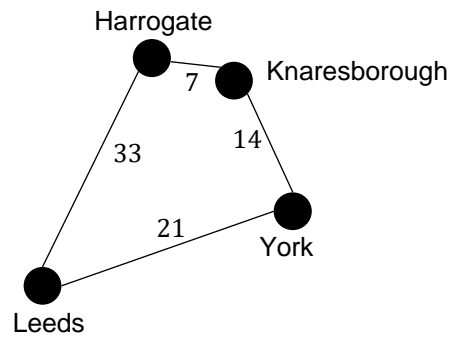
[2 marks]



- 10 Jack wants to build a 6 m fence in his garden. He has three fence lengths which are 2.5 m, 3 m and 0.8 m long. Does he have enough fence?

[2 marks]

- 11 The map below shows distances in miles between some towns and cities in Yorkshire. The lines represent roads and the numbers represent distances in miles.



- 11(a) How far is it from York to Harrogate?

[1 mark]

- 11(b) To go from Knaresborough to Leeds, is it shorter to go via York or via Harrogate?

[2 marks]

Q12

The Hardware Shop sells planks of wood in the following lengths for the following prices:

50 cm - £1.99

1 m - £2.99

2 m - £3.99

5 m - £6.99

10 m - £12.99

Benjamin wishes to buy exactly 1450 cm of wood for the lowest price possible.

Which lengths should he buy, how much will it cost, and how much change would he get from a £50 note?

[4 marks]