

11+ Maths Practice Paper

Year 4 · Foundation

Lesson 6.1: Metric conversions

Read this with your child:

1. This paper has **20 questions** in two parts. Work through them in order. The questions get harder as you go.
2. **Part 1** is multiple choice. Choose **one** answer, A, B, C, D or E, and mark it on the separate answer sheet by drawing a firm line through the box next to its letter. If you change your mind, rub the line out completely and mark your new answer.
3. **Part 2** asks you to write your answer. Write it in the boxes on the answer sheet, **one digit in each box**, starting from the left.
4. If a question is hard, leave it and come back to it at the end.
5. You may use rough paper for working out. You may **not** use a calculator.
6. Suggested time: **25 minutes**.

The answer sheet is after the questions. The answers, with a short explanation of each, are at the back for a parent to mark with.

These are original practice questions written by Elite Learners in the style of 11+ entrance tests. They are not produced by, or connected with, GL Assessment or Cambridge University Press & Assessment (CEM).

Example

How many centimetres are in 3 metres?

- A** 300 cm **B** 30 cm **C** 3000 cm **D** 103 cm **E** 3 cm

Answer: A 1 m = 100 cm, so 3 m = $3 \times 100 = 300$ cm.

The answer, A, has already been marked on your answer sheet.

Now turn over and start Part 1.

Part 1: Multiple choice

1

Which unit would you use to measure the length of a pencil?

- A kilometres B centimetres C metres D kilograms E millilitres

2

Which unit would you use to measure how much water a bath holds?

- A millilitres B kilograms C grams D metres E litres

3

How many millimetres are in 1 centimetre?

- A 100 mm B 10 mm C 1000 mm D 1 mm E 5 mm

4

How many grams are in 4 kilograms?

- A 40 g B 400 g C 40,000 g D 4 g E 4000 g

5

How many millilitres are in 6 litres?

- A 60 ml B 600 ml C 6000 ml D 6100 ml E 60,000 ml

6

A pencil is 9 cm and 3 mm long.

How long is the pencil in millimetres?

- A 12 mm B 903 mm C 930 mm D 93 mm E 39 mm

7

How many metres are the same as 700 cm?

- A 70 m B 7 m C 0.7 m D 7000 m E 700 m

8

Which of these is the longest?

- A 250 cm B 2 m C 150 cm D 1 m E 190 cm

9

How many metres are in 5 kilometres?

- A** 5000 m **B** 500 m **C** 50 m **D** 50,000 m **E** 5 m
-

10

How many grams are in half a kilogram?

- A** 50 g **B** 5000 g **C** 250 g **D** 200 g **E** 500 g
-

11

On a measuring jug, the numbers go 100 ml, 200 ml, 300 ml and so on.
There is one small mark halfway between each pair of numbers.

How much is each small mark worth?

- A** 50 ml **B** 10 ml **C** 100 ml **D** 25 ml **E** 150 ml
-

12

A ribbon is 3 m long. Zara cuts off 50 cm.

How long is the ribbon now?

- A** 2.5 cm **B** 47 cm **C** 350 cm **D** 250 cm **E** 25 cm
-

13

A bottle holds 2 litres of water.

How many 500 ml cups can it fill?

- A** 2 **B** 40 **C** 1 **D** 4 **E** 10
-

14

Which list is in order, lightest first?

- A** 1 kg, 2 kg, 800 g, 1500 g
B 800 g, 1500 g, 1 kg, 2 kg
C 800 g, 1 kg, 1500 g, 2 kg
D 2 kg, 1500 g, 1 kg, 800 g
E 1 kg, 800 g, 2 kg, 1500 g
-

15

A bag of apples weighs 1 kg 200 g.

How many grams is that?

A 1020 g

B 3200 g

C 1200 g

D 120 g

E 12,000 g

Part 2: Write your answer

16

How many centimetres are in 8 metres?

Write your answer in the boxes on the answer sheet, one digit in each box.

17

How many metres are in 3 kilometres?

Write your answer in the boxes on the answer sheet, one digit in each box.

18

A book is 24 cm wide.

How many millimetres wide is it?

Write your answer in the boxes on the answer sheet, one digit in each box.

19

Omar has a 2 kg bag of flour. He uses 750 g.

How many grams of flour are left?

Write your answer in the boxes on the answer sheet, one digit in each box.

20

A jug holds 1 litre. Ella pours in 3 glasses of 200 ml.

How many more millilitres will fill the jug?

Write your answer in the boxes on the answer sheet, one digit in each box.

Answer sheet

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Name

Draw a firm line through the box next to your answer, like the example.

Part 1: Multiple choice

Ex	A ☒ B ☐ C ☐ D ☐ E ☐	8	A ☐ B ☐ C ☐ D ☐ E ☐
1	A ☐ B ☐ C ☐ D ☐ E ☐	9	A ☐ B ☐ C ☐ D ☐ E ☐
2	A ☐ B ☐ C ☐ D ☐ E ☐	10	A ☐ B ☐ C ☐ D ☐ E ☐
3	A ☐ B ☐ C ☐ D ☐ E ☐	11	A ☐ B ☐ C ☐ D ☐ E ☐
4	A ☐ B ☐ C ☐ D ☐ E ☐	12	A ☐ B ☐ C ☐ D ☐ E ☐
5	A ☐ B ☐ C ☐ D ☐ E ☐	13	A ☐ B ☐ C ☐ D ☐ E ☐
6	A ☐ B ☐ C ☐ D ☐ E ☐	14	A ☐ B ☐ C ☐ D ☐ E ☐
7	A ☐ B ☐ C ☐ D ☐ E ☐	15	A ☐ B ☐ C ☐ D ☐ E ☐

Part 2: Write your answer, one digit in each box

16		19	
17		20	
18			

Answers

For a parent to mark with. One mark for each question: the paper is out of 20. Talk through any your child got wrong, using the explanation.

Q	Answer	How to get it
1	B centimetres	A pencil is about 18 cm long. Kilometres and metres are far too big; kilograms and millilitres do not measure length.
2	E litres	A bath holds about 150 litres. Millilitres are far too small, and grams, kilograms and metres do not measure capacity.
3	B 10 mm	Each centimetre on a ruler is cut into 10 small marks: 1 cm = 10 mm.
4	E 4000 g	1 kg = 1000 g, so 4 kg = $4 \times 1000 = 4000$ g.
5	C 6000 ml	1 litre = 1000 ml, so 6 litres = $6 \times 1000 = 6000$ ml.
6	D 93 mm	9 cm = $9 \times 10 = 90$ mm. Then $90 + 3 = 93$ mm.
7	B 7 m	100 cm make 1 m, so $700 \div 100 = 7$ m.
8	A 250 cm	Change the metres into centimetres: 2 m = 200 cm and 1 m = 100 cm. 250 cm is the longest.
9	A 5000 m	1 km = 1000 m, so 5 km = $5 \times 1000 = 5000$ m.
10	E 500 g	1 kg = 1000 g, and half of 1000 is 500.
11	A 50 ml	From one number to the next is 100 ml, and the mark cuts it into 2 gaps: $100 \div 2 = 50$ ml.
12	D 250 cm	3 m = 300 cm, and $300 - 50 = 250$ cm (which is 2.5 m).
13	D 4	2 litres = 2000 ml, and $2000 \div 500 = 4$ cups.
14	C 800 g, 1 kg, 1500 g, 2 kg	In grams: 1 kg = 1000 g and 2 kg = 2000 g. So 800, 1000, 1500, 2000.
15	C 1200 g	1 kg = 1000 g, and $1000 + 200 = 1200$ g.
16	800	1 m = 100 cm, so $8 \times 100 = 800$ cm.
17	3,000	1 km = 1000 m, so $3 \times 1000 = 3000$ m.
18	240	1 cm = 10 mm, so $24 \times 10 = 240$ mm.
19	1,250	2 kg = 2000 g, and $2000 - 750 = 1250$ g.
20	400	1 litre = 1000 ml. Three glasses are $3 \times 200 = 600$ ml, and $1000 - 600 = 400$ ml.

Score: out of 20