

11+ Maths Practice Paper

Year 5 · Intermediate

Lesson 6.1: Metric conversions

Read this with your child:

1. This paper has **24 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: **30 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

Change 350 cm into metres.

- A** 3.5 m **B** 35 m **C** 0.35 m **D** 3500 m **E** 30.5 m

Answer: A 100 cm make 1 m, so $350 \div 100 = 3.5$ m. The digits move 2 places to the right.

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

Now turn over and start Part 1.

Part 1: Multiple choice

1

Change 2.5 kg into grams.

- A** 250 g **B** 25 g **C** 2050 g **D** 25,000 g **E** 2500 g

2

Change 4.2 m into centimetres.

- A** 42 cm **B** 420 cm **C** 4200 cm **D** 402 cm **E** 4.2 cm

3

Change 750 g into kilograms.

- A** 7.5 kg **B** 75 kg **C** 0.75 kg **D** 0.075 kg **E** 7500 kg

4

Change 1500 ml into litres.

- A** 15 litres **B** 150 litres **C** 0.15 litres **D** 1.05 litres **E** 1.5 litres

5

Change 68 mm into centimetres.

- A** 68 cm **B** 6.8 cm **C** 0.68 cm **D** 680 cm **E** 6.08 cm

6

Write 3 km 400 m in metres.

- A** 3004 m **B** 340 m **C** 34,000 m **D** 3400 m **E** 3040 m

7

Write 6 kg 50 g in grams.

- A** 6500 g **B** 6005 g **C** 6050 g **D** 650 g **E** 56 g

8

Which of these is the heaviest?

- A** 950 g **B** 1050 g **C** 0.8 kg **D** 1100 g **E** 1.2 kg

9

Which amount is the same as 0.6 litres?

- A** 60 ml **B** 6 ml **C** 600 ml **D** 6000 ml **E** 0.6 ml
-

10

A kitchen scale has a number every 200 g, with 4 gaps between each pair of numbers.

The needle is 3 small marks past 400 g.

What is the mass?

- A** 550 g **B** 403 g **C** 430 g **D** 520 g **E** 600 g
-

11

Which list is in order, shortest first?

- A** 0.48 m, 0.5 m, 45 cm, 520 mm
B 0.5 m, 0.48 m, 45 cm, 520 mm
C 45 cm, 0.48 m, 0.5 m, 520 mm
D 45 cm, 0.5 m, 0.48 m, 520 mm
E 520 mm, 0.5 m, 0.48 m, 45 cm
-

12

A jug holds 1.5 litres of juice. Sam pours 3 glasses of 250 ml.

How much juice is left in the jug?

- A** 750 ml **B** 1250 ml **C** 1000 ml **D** 2250 ml **E** 7.5 ml
-

13

Mia has 3 m of ribbon.

How many 25 cm pieces can she cut from it?

- A** 120 **B** 12 **C** 1.2 **D** 75 **E** 8
-

14

One lap of a running track is 400 m.

How many laps make 2 km?

- A** 5 **B** 50 **C** 2 **D** 8 **E** 4
-

15

A bag of rice weighs 500 g.

What do 5 bags weigh in kilograms?

- A** 25 kg **B** 2500 kg **C** 0.25 kg **D** 2.5 kg **E** 5.5 kg

16

Which of these is NOT the same length as 2 m?

- A** 20 cm **B** 200 cm **C** 2000 mm **D** 2.00 m **E** 0.002 km

17

A square has sides of 1 cm. Each side is 10 mm long.

How many square millimetres does the square cover?

- A** 10 mm² **B** 100 mm² **C** 1000 mm² **D** 20 mm² **E** 40 mm²

18

Change 2.05 kg into grams.

- A** 2500 g **B** 205 g **C** 2005 g **D** 2050 g **E** 20.5 g

Part 2: Write your answer

19

How many grams are in 3.6 kg?

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

20

How many centimetres are in 4.75 m?

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

21

A bottle holds 2 litres of water. Leo pours out 650 ml.

How many millilitres are left?

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

22

A cake uses 1.2 kg of flour and 850 g of sugar.

What is the total mass in grams?

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

23

A jug holds 3 litres.

How many 200 ml glasses can it fill?

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

24

Write 6 m 8 cm in centimetres.

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

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

19		22	
20		23	
21		24	

Answers

For a parent to mark with. One mark for each question: the paper is out of 24. Talk through any your child got wrong, using the explanation.

Q	Answer	How to get it
1	E 2500 g	1 kg = 1000 g, so $2.5 \times 1000 = 2500$ g.
2	B 420 cm	1 m = 100 cm, so $4.2 \times 100 = 420$ cm.
3	C 0.75 kg	1000 g make 1 kg, so $750 \div 1000 = 0.75$ kg.
4	E 1.5 litres	1000 ml make 1 litre, so $1500 \div 1000 = 1.5$ litres.
5	B 6.8 cm	10 mm make 1 cm, so $68 \div 10 = 6.8$ cm.
6	D 3400 m	3 km = 3000 m, and $3000 + 400 = 3400$ m.
7	C 6050 g	6 kg = 6000 g, and $6000 + 50 = 6050$ g.
8	E 1.2 kg	In grams: 1.2 kg = 1200 g and 0.8 kg = 800 g. 1200 g is the heaviest.
9	C 600 ml	$0.6 \times 1000 = 600$ ml.
10	A 550 g	Each gap is $200 \div 4 = 50$ g. Three marks past 400 is $400 + 3 \times 50 = 550$ g.
11	C 45 cm, 0.48 m, 0.5 m, 520 mm	In millimetres: 45 cm = 450, 0.48 m = 480, 0.5 m = 500, and 520. So 450, 480, 500, 520.
12	A 750 ml	1.5 litres = 1500 ml. Three glasses are $3 \times 250 = 750$ ml, and $1500 - 750 = 750$ ml.
13	B 12	3 m = 300 cm, and $300 \div 25 = 12$ pieces.
14	A 5	2 km = 2000 m, and $2000 \div 400 = 5$ laps.
15	D 2.5 kg	$5 \times 500 = 2500$ g, and $2500 \div 1000 = 2.5$ kg.
16	A 20 cm	2 m = 200 cm = 2000 mm, and $0.002 \text{ km} \times 1000 = 2$ m. 2.00 m is 2 m: zeros on the end change nothing. Only 20 cm is different.
17	B 100 mm^2	The square is 10 rows of 10 small squares: $10 \times 10 = 100 \text{ mm}^2$. So $1 \text{ cm}^2 = 100 \text{ mm}^2$.
18	D 2050 g	$2.05 \times 1000 = 2050$ g. The 0 in the tenths column matters.
19	3,600	$3.6 \times 1000 = 3600$ g.
20	475	$4.75 \times 100 = 475$ cm.
21	1,350	2 litres = 2000 ml, and $2000 - 650 = 1350$ ml.
22	2,050	1.2 kg = 1200 g, and $1200 + 850 = 2050$ g.
23	15	3 litres = 3000 ml, and $3000 \div 200 = 15$ glasses.
24	608	6 m = 600 cm, and $600 + 8 = 608$ cm.

Score: out of 24