

# 11+ Maths Practice Paper

## Year 6 · Advanced

### Lesson 6.2: Imperial conversions

#### Read this with your child:

1. This paper has **27 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: **35 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

1 mile is about 1.6 km.

**About how many kilometres is 25 miles?**

**A** 40 km      **B** 15.6 km      **C** 160 km      **D** 26.6 km      **E** 4 km

**Answer: A**  $25 \times 1.6 = 40$  km. (Or: 25 miles is 5 lots of 5 miles, and  $5 \times 8 = 40$ .)

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

**Now turn over and start Part 1.**

## Part 1: Multiple choice

1

1 inch = 2.54 cm.

**How many centimetres is 5 inches?**

- A** 12.7 cm      **B** 12.5 cm      **C** 127 cm      **D** 7.54 cm      **E** 10.16 cm
- 

2

1 mile is about 1.6 km.

**About how many kilometres is 45 miles?**

- A** 46.6 km      **B** 720 km      **C** 56 km      **D** 72 km      **E** 64 km
- 

3

1 lb is about 0.45 kg.

**About how many kilograms is 20 lb?**

- A** 44 kg      **B** 9 kg      **C** 90 kg      **D** 4.5 kg      **E** 20.45 kg
- 

4

1 litre is about 1.75 pints.

**About how many pints is 6 litres?**

- A** 7.75 pints      **B** 105 pints      **C** 3.5 pints      **D** 12 pints      **E** 10.5 pints
- 

5

A baby weighs 3.5 kg.

1 kg is about 2.2 lb.

**About how many pounds does the baby weigh?**

- A** 7 lb      **B** 7.7 lb      **C** 5.7 lb      **D** 77 lb      **E** 1.6 lb
-

6

5 miles is about 8 km.

**Four of these are about the same distance. Which one is different?**

- A 5 miles
- B 8 km
- C 8000 m
- D 800,000 centimetres
- E 8 miles

7

1 lb is about 450 g.

**Which of these is the lightest?**

- A 2 lb
- B 1 kg
- C 800 g
- D 1.5 lb
- E 0.75 kg

8

1 mile is about 1.6 km.

**Which list is in order, shortest first?**

- A 4 miles, 5 km, 6 miles, 8 km
- B 5 km, 8 km, 4 miles, 6 miles
- C 6 miles, 8 km, 4 miles, 5 km
- D 5 km, 4 miles, 8 km, 6 miles
- E 4 miles, 6 miles, 5 km, 8 km

9

A suitcase can weigh up to 23 kg.

1 kg is about 2.2 lb.

**About how many pounds is that?**

- A 46 lb
- B 25.2 lb
- C 50.6 lb
- D 506 lb
- E 10.5 lb

10

A jug holds 1.5 litres.

1 pint is about 0.57 litres.

**How many full 1 pint glasses can it fill?**

- A 3
- B 2
- C 1
- D 4
- E 26

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11

A cake needs 1.5 lb of sugar.

1 lb is about 450 g.

**About how many grams of sugar is that?**

- A** 675 g      **B** 67.5 g      **C** 6750 g      **D** 600 g      **E** 451.5 g
- 

12

Ella runs 6 miles. Sam runs 10 km.

1 mile is about 1.6 km.

**Who runs further, and by about how much?**

- A** Sam, by about 0.4 km  
**B** Ella, by about 4 km  
**C** Ella, by about 0.4 km  
**D** Sam, by about 4 km  
**E** They run the same distance
- 

13

A photo is 6 inches long and 4 inches wide.

1 inch = 2.54 cm.

**How much longer is the length than the width, in centimetres?**

- A** 5 cm      **B** 2 cm      **C** 5.08 cm      **D** 50.8 cm      **E** 25.4 cm
- 

14

A car's fuel tank holds 50 litres.

1 litre is about 1.75 pints.

**About how many pints does it hold?**

- A** 51.75 pints      **B** 875 pints      **C** 100 pints      **D** 70 pints      **E** 87.5 pints
-

15

One bag of potatoes weighs 5 lb. Another weighs 2.5 kg.  
1 kg is about 2.2 lb.

**Which bag is heavier, and by about how much?**

- A The 5 lb bag, by about 0.5 lb
- B The 2.5 kg bag, by about 2.5 lb
- C The 2.5 kg bag, by about 0.5 lb
- D The 5 lb bag, by about 2.5 lb
- E They weigh the same

16

One lap of a running track is 400 m.  
1 mile is about 1.6 km.

**About how many laps make 1 mile?**

- A 16                      B 2                      C 4                      D 3                      E 6

17

1 inch is about 2.5 cm.

**Which of these is NOT about the same length as 10 inches?**

- A 4 cm                      B 25 cm                      C 250 mm                      D 0.25 m                      E 0.00025 km

18

A paddling pool holds 280 pints.  
4 litres is about 7 pints.

**About how many litres does it hold?**

- A 490 litres                      B 70 litres                      C 40 litres                      D 160 litres                      E 1120 litres

19

1 kg is about 2.2 lb.

**Which is heavier, 50 kg or 100 lb, and by about how much?**

- A 100 lb, by about 50 lb
- B 50 kg, by about 10 lb
- C 50 kg, by about 50 lb
- D 100 lb, by about 10 lb
- E They weigh the same

20

A walk is 12 km long. Zara has walked 5 miles so far.

5 miles is about 8 km.

**About how many kilometres are left?**

- A 7 km      B 20 km      C 3 km      D 6 km      E 4 km

## Part 2: Write your answer

21

1 mile is about 1.6 km.

**About how many kilometres is 15 miles?**

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

22

1 lb is about 450 g.

**About how many grams is 6 lb?**

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

23

1 litre is about 1.75 pints.

**About how many pints is 8 litres?**

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

24

1 inch = 2.54 cm.

**How many millimetres is 10 inches?**

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

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25

1 kg is about 2.2 lb.

**About how many kilograms is 33 lb?**

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

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26

Ava buys 6 pints of milk and uses 1 litre of it.

1 pint is about 570 ml.

**About how many millilitres of milk are left?**

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

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27

A train travels 100 miles, then 40 km more.

5 miles is about 8 km.

**About how many kilometres does it travel altogether?**

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

# Answer sheet

11+ Maths Practice Paper · Year 6 · Lesson 6.2: Imperial conversions

Name .....

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

## Part 1: Multiple choice

|           |                                       |                            |                            |                            |                            |
|-----------|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| <b>Ex</b> | A <input checked="" type="checkbox"/> | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>1</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>2</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>3</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>4</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>5</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>6</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>7</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>8</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>9</b>  | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>10</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>11</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>12</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>13</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>14</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>15</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>16</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>17</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>18</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>19</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |
| <b>20</b> | A <input type="checkbox"/>            | B <input type="checkbox"/> | C <input type="checkbox"/> | D <input type="checkbox"/> | E <input type="checkbox"/> |

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

|           |                                                                                     |
|-----------|-------------------------------------------------------------------------------------|
| <b>21</b> | <input type="text"/> <input type="text"/>                                           |
| <b>22</b> | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |
| <b>23</b> | <input type="text"/> <input type="text"/>                                           |
| <b>24</b> | <input type="text"/> <input type="text"/> <input type="text"/>                      |
| <b>25</b> | <input type="text"/> <input type="text"/>                                           |
| <b>26</b> | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> |
| <b>27</b> | <input type="text"/> <input type="text"/> <input type="text"/>                      |

# Answers

For a parent to mark with. One mark for each question: the paper is out of 27. Talk through any your child got wrong, using the explanation.

| Q  | Answer                            | How to get it                                                                                              |
|----|-----------------------------------|------------------------------------------------------------------------------------------------------------|
| 1  | A 12.7 cm                         | Use the rate in the question: $5 \times 2.54 = 12.7$ cm.                                                   |
| 2  | D 72 km                           | $45 \times 1.6 = 72$ km. (Or: 9 lots of 5 miles, and $9 \times 8 = 72$ .)                                  |
| 3  | B 9 kg                            | Use the rate in the question: $20 \times 0.45 = 9$ kg.                                                     |
| 4  | E 10.5 pints                      | $6 \times 1.75 = 10.5$ pints. ( $6 \times 1 = 6$ and $6 \times 0.75 = 4.5$ .)                              |
| 5  | B 7.7 lb                          | Double 3.5 is 7, a tenth of 7 is 0.7, and $7 + 0.7 = 7.7$ lb.                                              |
| 6  | E 8 miles                         | 5 miles is about 8 km = 8000 m = 800,000 cm. 8 miles is about 12.8 km, much further.                       |
| 7  | D 1.5 lb                          | 1.5 lb is about $1.5 \times 450 = 675$ g. That is less than 750 g (0.75 kg) and 800 g.                     |
| 8  | D 5 km, 4 miles, 8 km, 6 miles    | 4 miles is about 6.4 km and 6 miles is about 9.6 km. So 5, 6.4, 8, 9.6.                                    |
| 9  | C 50.6 lb                         | $23 \times 2.2$ : double 23 is 46, a tenth of 46 is 4.6, and $46 + 4.6 = 50.6$ lb.                         |
| 10 | B 2                               | 2 glasses use $2 \times 0.57 = 1.14$ litres. A 3rd would need 1.71 litres: too much. So 2.                 |
| 11 | A 675 g                           | $1.5 \times 450$ : $450 + 225 = 675$ g.                                                                    |
| 12 | A Sam, by about 0.4 km            | $6 \times 1.6 = 9.6$ km. $10 - 9.6 = 0.4$ , so Sam runs about 0.4 km (400 m) further.                      |
| 13 | C 5.08 cm                         | The difference is $6 - 4 = 2$ inches, and $2 \times 2.54 = 5.08$ cm.                                       |
| 14 | E 87.5 pints                      | $50 \times 1.75$ : $50 \times 1 = 50$ and $50 \times 0.75 = 37.5$ , so $50 + 37.5 = 87.5$ pints.           |
| 15 | C The 2.5 kg bag, by about 0.5 lb | 2.5 kg is about $2.5 \times 2.2 = 5.5$ lb. $5.5 - 5 = 0.5$ , so the 2.5 kg bag is heavier by about 0.5 lb. |
| 16 | C 4                               | 1.6 km = 1600 m, and $1600 \div 400 = 4$ laps.                                                             |
| 17 | A 4 cm                            | 10 inches is about 25 cm = 250 mm = 0.25 m = 0.00025 km. 4 cm is far too short: 10 cm is about 4 inches.   |
| 18 | D 160 litres                      | 280 pints is 40 lots of 7 pints, so it is $40 \times 4 = 160$ litres.                                      |
| 19 | B 50 kg, by about 10 lb           | 50 kg is about $50 \times 2.2 = 110$ lb. $110 - 100 = 10$ , so 50 kg is heavier by about 10 lb.            |
| 20 | E 4 km                            | 5 miles is about 8 km, and $12 - 8 = 4$ km.                                                                |
| 21 | 24                                | $15 \times 1.6 = 24$ km.                                                                                   |
| 22 | 2,700                             | $6 \times 450 = 2700$ g.                                                                                   |
| 23 | 14                                | $8 \times 1.75 = 14$ pints.                                                                                |
| 24 | 254                               | $10 \times 2.54 = 25.4$ cm, and 25.4 cm = 254 mm.                                                          |
| 25 | 15                                | $15 \times 2.2 = 33$ , so 33 lb is about 15 kg.                                                            |

| Q  | Answer | How to get it                                                                          |
|----|--------|----------------------------------------------------------------------------------------|
| 26 | 2,420  | $6 \times 570 = 3420$ ml, and 1 litre = 1000 ml. $3420 - 1000 = 2420$ ml.              |
| 27 | 200    | 100 miles is 20 lots of 5 miles, so about $20 \times 8 = 160$ km. $160 + 40 = 200$ km. |

**Score: ..... out of 27**