# 7.8 Measurement: Metric and Imperial Units: Test Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** Write the larger metric unit for each pair.

**(a)** Which is larger: centimetre or metre? **(1)**

**2** A plank is 2 metres. How many metres are there in 3 planks?

Answer: ___ metres

**(2)**

**3** Which is bigger, 4.4 kg or 4,269 g?

Answer: ___

**(2)**

**4** A bottle holds 1.9 litres. How many litres are there in 6 bottles?

Answer: ___ litres

**(2)**


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**5** £1 = 2 zlotys.

A toy costs 14 zlotys. How much is that in pounds?

Answer: £___

**(1)**

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**6** A jug holds 1.75 litres of juice. Femi pours it into glasses that each hold 50 ml.

How many glasses can be filled?

Answer: ___

**(2)**

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**7** 4 hours 45 minutes is how many minutes?

Answer: ___ minutes

**(1)**

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**8** £1 = 5 zlotys.

How many zlotys do you get for £38?

Answer: ___ zlotys

**(1)**


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**9** Choose the best estimate in metres of the length of a school classroom: 3 m, 7 m, or 30 m? Explain your choice in one sentence.

- ☐ 3 m
- ☐ 7 m
- ☐ 30 m

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**10** Write 22:05 using am or pm.

Answer: ___

**(1)**

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**11** A parcel is 40 cm by 30 cm by 20 cm. Find its volume in cubic centimetres.

**(2)**

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**12** Explain why 1 mile is often given as about 1.6 kilometres. Your explanation should show the conversion and say whether it is exact or an approximation.

**(3)**

---

**13** Convert 30 mm to cm.

Answer: ___ cm

**(1)**


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**14** Which is bigger, 2.8 litres or 2,859 ml?

Answer: ___

(2)

**15** Write 22:15 using am or pm.

Answer: ___

(1)

**16** Fill in the missing unit to make each statement correct.

**(a)** 1,000 metres = 1 _____. (1)

**(b)** 1,000 grams = 1 _____. (1)

**17** Convert 8.52 kg to g.

Answer: ___ g

(1)

**18** Convert 53,200 g to kg.

Answer: ___ kg

(1)


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**19** A scale in ml has big marks every 100 ml, with 5 equal small divisions between each big mark. The first big mark is 400. The pointer is 4 small divisions after the second big mark.

What is the reading?

Answer: ___ ml

**(2)**

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**20** A recipe needs 250 grams of flour. Kwame has a 1 kilogram bag. How many recipes can he make using the whole bag?

**(2)**

---

**21** £1 = 6 dollars.

How many dollars do you get for £41?

Answer: ___ dollars

**(1)**

---

**22** Convert 812 cm to m.

Answer: ___ m

**(1)**


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**23** Use 1 inch = 2.5 cm.

A strip of card is 7 inches long. How long is it in cm?

Answer: ___ cm

**(2)**

---

**24** Which is bigger, 9.1 m or 810 cm?

Answer: ___

**(1)**

---

**25** Which is heavier: 2.5 kilograms or 2,500 grams? Explain your answer in one sentence.

**(2)**

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**26** Callum buys a bag of potatoes weighing 1.2 kg and a bag of carrots weighing 208 g.

What is the total mass in kg?

Answer: ___ kg

**(2)**


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**27** Daisy has a 9 m roll of wire. Daisy uses 574 cm of it.

How many centimetres of wire are left?

Answer: ___ cm

**(2)**

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**28** Use 1 foot = 30 cm.

A strip of card is 360 cm long. How long is it in feet?

Answer: ___ feet

**(2)**


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# Mark scheme · 7.8 Measurement: Metric and Imperial Units: Test Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

### Question 1

(a) metre cao — **B1**

(a) Answer: **metre**

### Question 2

multiplication seen — **M1**

6 metres cao — **A1**

Answer: **6 metres**

### Question 3

converts to the same unit — **M1**

4.4 kg cao — **A1**

Answer: **4.4 kg**

### Question 4

multiplication seen — **M1**

11.4 litres cao — **A1**

Answer: **11.4 litres**

### Question 5

£7 cao — **B1**

Answer: **£7**

### Question 6

1.75 litres = 1,750 ml seen — **M1**

35 cao — **A1**

Answer: **35**

### Question 7

285 minutes cao — **B1**

Answer: **285 minutes**

### Question 8

190 zlotys cao — **B1**

Answer: **190 zlotys**

### Question 9

Gives a reason showing realistic room size, e.g. desks fit and measurements compared — **M1**

7 m chosen with a sensible explanation cao — **B1**

Answer: **7 m**

### Question 10

10:05 pm cao — **B1**

Answer: **10:05 pm**

### Question 11

Uses multiplication 40 x 30 x 20 seen — **M1**

24,000 $cm^3$ cao — **B1**

Answer: **24000**

### Question 12

States the exact conversion or a known conversion factor, e.g. 1 mile = 1609 m or 1.609 km — **M1**

Explains that 1.6 km is a rounded value from 1.609 km (shows subtraction or rounding idea) — **M1**

Concludes that 1.6 km is an approximation, not exact cao — **B1**

Answer: **1 mile = 1,609 m which is 1.609 km, so 1.6 km is a rounded approximation; it is not exact.**

### Question 13

3 cm cao — **B1**

Answer: **3 cm**

### Question 14

converts to the same unit — **M1**

2,859 ml cao — **A1**

Answer: **2,859 ml**

### Question 15

10:15 pm cao — **B1**

Answer: **10:15 pm**

### Question 16

(a) kilometre cao — **B1**

(a) Answer: **kilometre**

(b) kilogram cao — **B1**

(b) Answer: **kilogram**

### Question 17

8,520 g cao — **B1**

Answer: **8,520 g**

### Question 18

53.2 kg cao — **B1**

Answer: **53.2 kg**

### Question 19

size of a small division found — **M1**

580 ml cao — **A1**

Answer: **580 ml**

### Question 20

1000/250 = 4 method seen — **M1**

4 cao — **B1**

Answer: **4**

### Question 21

246 dollars cao — **B1**

Answer: **246 dollars**

### Question 22

8.12 m cao — **B1**

Answer: **8.12 m**


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## Question 23

| | |
|---|---|
| multiplies by the conversion | **M1** |
| 17.5 cm cao | **A1** |

Answer: **17.5 cm**

## Question 24

| | |
|---|---|
| 9.1 m cao | **B1** |

Answer: **9.1 m**

## Question 25

| | |
|---|---|
| Shows conversion or equality, e.g. 2.5 kg = 2500 g seen | **M1** |
| Statement that they are equal or same weight cao | **B1** |

Answer: **They are the same weight; 2.5 kg = 2500 g.**

## Question 26

| | |
|---|---|
| 208 g = 0.208 kg seen | **M1** |
| 1.408 kg cao | **A1** |

Answer: **1.408 kg**

## Question 27

| | |
|---|---|
| 9 m = 900 cm seen | **M1** |
| 326 cm cao | **A1** |

Answer: **326 cm**

## Question 28

| | |
|---|---|
| divides by the conversion | **M1** |
| 12 cao | **A1** |

Answer: **12**


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