2.10 Measures and Units: Test Pack

GL ASSESSMENT GL · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Convert each of these measurements.

(a) Convert 4 km into metres. **(1)**

(b) Convert 3200 g into kilograms. **(1)**

---

2 Convert 88.1 litres to ml.

- ☐ A) 0.0881 ml
- ☐ B) 88,100 ml
- ☐ C) 881 ml
- ☐ D) 8,810 ml
- ☐ E) 881,000 ml

---

3 Convert 6,483,000 ml to litres.

- ☐ A) 6,483,000,000 litres
- ☐ B) 648,300 litres
- ☐ C) 64,830 litres
- ☐ D) 6,483 litres
- ☐ E) 648.3 litres

---

4 A car travels at a constant speed of 60 km/h for 3 hours. Calculate the distance travelled.

(2)

© Revision Library | revisionlibrary.co.uk

5 Kwame has a roll of ribbon 6.5 m long and cuts off 5 pieces that are each 30 cm long. How many centimetres of ribbon are left?

- [ ] A) 150 cm
- [ ] B) 500 cm
- [ ] C) -143.5 cm
- [ ] D) 499 cm
- [ ] E) -85 cm

---

6 Ewan has a roll of ribbon 9 m long and cuts off 3 pieces that are each 45 cm long. How many centimetres of ribbon are left?

- [ ] A) -126 cm
- [ ] B) 766 cm
- [ ] C) -45 cm
- [ ] D) 135 cm
- [ ] E) 765 cm

---

7 Convert 0.768 kg to g.

- [ ] A) 7,680 g
- [ ] B) 768 g
- [ ] C) 0.000768 g
- [ ] D) 76.8 g
- [ ] E) 7.68 g

---

8 Convert 33 cm to mm.

- [ ] A) 3.3 mm
- [ ] B) 3,300 mm
- [ ] C) 330 mm
- [ ] D) 33,000 mm
- [ ] E) 330,000 mm

© Revision Library | revisionlibrary.co.uk

9 Isla has a roll of ribbon 4.25 m long and cuts off 7 pieces that are each 40 cm long. How many centimetres of ribbon are left?

- [ ] A) 280 cm
- [ ] B) -237.5 cm
- [ ] C) -275.75 cm
- [ ] D) 145 cm
- [ ] E) 146 cm

---

10 A jug holds 8 litres. Kofi fills glasses that each hold 500 ml. How many glasses can be filled from a full jug?

- [ ] A) 17
- [ ] B) 16
- [ ] C) 4,000
- [ ] D) 15
- [ ] E) 160

---

11 Convert 235,800 g to kg.

- [ ] A) 23,580 kg
- [ ] B) 235.8 kg
- [ ] C) 2,358 kg
- [ ] D) 235,800,000 kg
- [ ] E) 23.58 kg

---

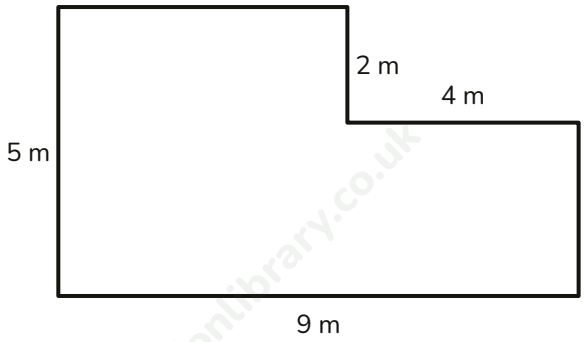
12 Convert 4.43 km to m.

- [ ] A) 443 m
- [ ] B) 4,430 m
- [ ] C) 0.00443 m
- [ ] D) 44,300 m
- [ ] E) 44.3 m

© Revision Library | revisionlibrary.co.uk

13 The diagram shows an L-shaped patio (not drawn to scale). The bottom edge is 9 m long and the left-hand edge is 5 m long. A rectangular section measuring 4 m by 2 m has been removed from the top right-hand corner, creating the notch in the shape. Calculate the perimeter of the patio.

Diagram NOT accurately drawn



(4)

---

14 A jug holds 7 litres. Niamh fills glasses that each hold 250 ml. How many glasses can be filled from a full jug?

- ☐ A) 28
- ☐ B) 280
- ☐ C) 1,750
- ☐ D) 27
- ☐ E) 29

---

15 Convert 0.035 kg to g.

- ☐ A) 0.000035 g
- ☐ B) 0.35 g
- ☐ C) 350 g
- ☐ D) 35 g
- ☐ E) 3.5 g

© Revision Library | revisionlibrary.co.uk

16 Convert 82.9 litres to ml.

- [ ] A) 0.0829 ml
- [ ] B) 829,000 ml
- [ ] C) 829 ml
- [ ] D) 8,290 ml
- [ ] E) 82,900 ml

---

17 Sana has a roll of ribbon 2.25 m long and cuts off 3 pieces that are each 25 cm long. How many centimetres of ribbon are left?

- [ ] A) 151 cm
- [ ] B) -72.75 cm
- [ ] C) 150 cm
- [ ] D) -52.5 cm
- [ ] E) 149 cm

---

18 A jug holds 9 litres. Hamza fills glasses that each hold 250 ml. How many glasses can be filled from a full jug?

- [ ] A) 360
- [ ] B) 2,250
- [ ] C) 35
- [ ] D) 36
- [ ] E) 37

---

19 Kofi has a roll of ribbon 9.5 m long and cuts off 7 pieces that are each 15 cm long. How many centimetres of ribbon are left?

- [ ] A) -95.5 cm
- [ ] B) 845 cm
- [ ] C) 846 cm
- [ ] D) -10 cm
- [ ] E) 105 cm

© Revision Library | revisionlibrary.co.uk

20 Convert 8.04 m to cm.

- ☐ A) 8,040 cm
- ☐ B) 0.0804 cm
- ☐ C) 804 cm
- ☐ D) 80.4 cm
- ☐ E) 80,400 cm

---

21 Show that a speed of 3.6 km/h is equivalent to exactly 1 m/s.

(3)

---

22 A jug holds 6 litres. Mei fills glasses that each hold 100 ml. How many glasses can be filled from a full jug?

- ☐ A) 6
- ☐ B) 600
- ☐ C) 60
- ☐ D) 59
- ☐ E) 61

---

23 A delivery van has a maximum load limit of 1 tonne (1000 kg). It is carrying three crates with masses of 320 kg, 275 kg and 380 kg.

(a) Calculate the total mass of the three crates. **(2)**

.....

(b) State, with a reason, whether the van is within its load limit. **(1)**

© Revision Library | revisionlibrary.co.uk

24 Sana has a roll of ribbon 2 m long and cuts off 4 pieces that are each 20 cm long. How many centimetres of ribbon are left?

- [ ] A) -78 cm
- [ ] B) 121 cm
- [ ] C) -60 cm
- [ ] D) 120 cm
- [ ] E) 180 cm

---

25 Declan has a roll of ribbon 5.75 m long and cuts off 9 pieces that are each 10 cm long. How many centimetres of ribbon are left?

- [ ] A) -84.25 cm
- [ ] B) 484 cm
- [ ] C) -32.5 cm
- [ ] D) 485 cm
- [ ] E) 5,660 cm

---

26 Convert 9.41 m to cm.

- [ ] A) 9,410 cm
- [ ] B) 94,100 cm
- [ ] C) 94.1 cm
- [ ] D) 941 cm
- [ ] E) 0.0941 cm

---

27 Convert 53.9 m to cm.

- [ ] A) 5,390 cm
- [ ] B) 0.539 cm
- [ ] C) 539,000 cm
- [ ] D) 539 cm
- [ ] E) 53,900 cm

© Revision Library | revisionlibrary.co.uk

28 A jug holds 5 litres. Esme fills glasses that each hold 100 ml. How many glasses can be filled from a full jug?

- [ ] A) 500
- [ ] B) 51
- [ ] C) 5
- [ ] D) 50
- [ ] E) 49

---

29 Noah has a roll of ribbon 4.5 m long and cuts off 6 pieces that are each 35 cm long. How many centimetres of ribbon are left?

- [ ] A) -205.5 cm
- [ ] B) 4,290 cm
- [ ] C) -165 cm
- [ ] D) 415 cm
- [ ] E) 240 cm

---

30 Convert 68.2 km to m.

- [ ] A) 68,200 m
- [ ] B) 0.0682 m
- [ ] C) 682 m
- [ ] D) 6,820 m
- [ ] E) 682,000 m

---

31 Convert 873,600 g to kg.

- [ ] A) 873,600,000 kg
- [ ] B) 873.6 kg
- [ ] C) 8,736 kg
- [ ] D) 87,360 kg
- [ ] E) 87.36 kg

© Revision Library | revisionlibrary.co.uk

32 Noah has a roll of ribbon 6.5 m long and cuts off 8 pieces that are each 45 cm long. How many centimetres of ribbon are left?

- [ ] A) -353.5 cm
- [ ] B) 289 cm
- [ ] C) -295 cm
- [ ] D) 605 cm
- [ ] E) 290 cm

---

33 Ewan has a roll of ribbon 7.25 m long and cuts off 7 pieces that are each 20 cm long. How many centimetres of ribbon are left?

- [ ] A) 705 cm
- [ ] B) 585 cm
- [ ] C) -132.75 cm
- [ ] D) 586 cm
- [ ] E) -67.5 cm

---

34 Convert 1.09 m to cm.

- [ ] A) 10,900 cm
- [ ] B) 1,090 cm
- [ ] C) 10.9 cm
- [ ] D) 0.0109 cm
- [ ] E) 109 cm

---

35 Convert 84,060 mm to cm.

- [ ] A) 840.6 cm
- [ ] B) 84.06 cm
- [ ] C) 840,600 cm
- [ ] D) 8.406 cm
- [ ] E) 8,406 cm

© Revision Library | revisionlibrary.co.uk

36 A jug holds 10 litres. Tom fills glasses that each hold 500 ml. How many glasses can be filled from a full jug?

- [ ] A) 20
- [ ] B) 19
- [ ] C) 2
- [ ] D) 21
- [ ] E) 200

---

37 Which of these lengths is the shortest?

- [ ] A) 0.5 m
- [ ] B) 45 cm
- [ ] C) 480 mm
- [ ] D) 52 cm

---

38 Harry has a roll of ribbon 6.75 m long and cuts off 4 pieces that are each 20 cm long. How many centimetres of ribbon are left?

- [ ] A) -73.25 cm
- [ ] B) 655 cm
- [ ] C) 594 cm
- [ ] D) 595 cm
- [ ] E) -12.5 cm

---

39 Convert 505,400 ml to litres.

- [ ] A) 50.54 litres
- [ ] B) 505.4 litres
- [ ] C) 5,054 litres
- [ ] D) 505,400,000 litres
- [ ] E) 50,540 litres

---

40 A measuring jug is marked with horizontal lines every 100 ml, labelled 0, 100, 200, up to 1000 ml. The surface of the water in the jug sits exactly halfway between the 700 ml line and the 800 ml line. State the volume of water in the jug.

(1)

© Revision Library | revisionlibrary.co.uk

41 Convert 840,300 g to kg.

- [ ] A) 840,300,000 kg
- [ ] B) 840.3 kg
- [ ] C) 8,403 kg
- [ ] D) 84,030 kg
- [ ] E) 84.03 kg

---

42 Grace has a roll of ribbon 6.5 m long and cuts off 3 pieces that are each 45 cm long. How many centimetres of ribbon are left?

- [ ] A) 135 cm
- [ ] B) -70 cm
- [ ] C) 6,365 cm
- [ ] D) -128.5 cm
- [ ] E) 515 cm

---

43 A rectangular flower bed has a length of 6 m and a width of 3.5 m. Calculate the perimeter of the flower bed.

- [ ] A) 9.5 m
- [ ] B) 21 m
- [ ] C) 19 m
- [ ] D) 42 m
- [ ] E) 15.5 m

---

44 Convert 7.48 m to cm.

- [ ] A) 74,800 cm
- [ ] B) 74.8 cm
- [ ] C) 0.0748 cm
- [ ] D) 7,480 cm
- [ ] E) 748 cm

© Revision Library | revisionlibrary.co.uk

45 A rectangular flower bed has a length of 7.5 m and a width of 3.5 m. Calculate the perimeter of the flower bed.

(2)

---

46 A jug contains 3 litres of orange juice. Calculate how many 500 ml glasses can be completely filled from the jug.

- ☐ A) 5 glasses
- ☐ B) 60 glasses
- ☐ C) 7 glasses
- ☐ D) 9 glasses
- ☐ E) 6 glasses

---

47 A car travels at a constant speed of 50 km/h for 6 hours. Calculate the distance travelled.

- ☐ A) 56 km
- ☐ B) 250 km
- ☐ C) 3000 km
- ☐ D) 300 km
- ☐ E) 350 km

---

48 Convert 10,830 mm to cm.

- ☐ A) 10.83 cm
- ☐ B) 108,300 cm
- ☐ C) 108.3 cm
- ☐ D) 1,083 cm
- ☐ E) 1.083 cm

© Revision Library | revisionlibrary.co.uk

49 Grace has a roll of ribbon 8 m long and cuts off 3 pieces that are each 35 cm long. How many centimetres of ribbon are left?

- [ ] A) 696 cm
- [ ] B) 695 cm
- [ ] C) -25 cm
- [ ] D) -97 cm
- [ ] E) 7,895 cm

---

50 A jug holds 11 litres. Amara fills glasses that each hold 250 ml. How many glasses can be filled from a full jug?

- [ ] A) 440
- [ ] B) 43
- [ ] C) 2,750
- [ ] D) 45
- [ ] E) 44

---

51 Grace has a roll of ribbon 3.5 m long and cuts off 3 pieces that are each 40 cm long. How many centimetres of ribbon are left?

- [ ] A) -116.5 cm
- [ ] B) 3,380 cm
- [ ] C) 231 cm
- [ ] D) -85 cm
- [ ] E) 230 cm

---

52 Convert 592,000 m to km.

- [ ] A) 592,000,000 km
- [ ] B) 5,920 km
- [ ] C) 59,200 km
- [ ] D) 59.2 km
- [ ] E) 592 km

© Revision Library | revisionlibrary.co.uk

Mark scheme · 2.10 Measures and Units: Test Pack

Question 1

(a) 4000 m cao **B1**

(a) Answer: 4000 m

(b) 3.2 kg cao **B1**

(b) Answer: 3.2 kg

Question 2

correct option B (88,100 ml) cao **B1**

Answer: B) 88,100 ml

Question 3

correct option D (6,483 litres) cao **B1**

Answer: D) 6,483 litres

Question 4

Uses distance = speed x time (oe) **M1**

180 km cao **A1**

Answer: 180 km

Question 5

correct option B (500 cm) cao **B1**

Answer: B) 500 cm

Question 6

correct option E (765 cm) cao **B1**

Answer: E) 765 cm

Question 7

correct option B (768 g) cao **B1**

Answer: B) 768 g

Question 8

correct option C (330 mm) cao **B1**

Answer: C) 330 mm

Question 9

correct option D (145 cm) cao **B1**

Answer: D) 145 cm

Question 10

correct option B (16) cao **B1**

Answer: B) 16

Question 11

correct option B (235.8 kg) cao **B1**

Answer: B) 235.8 kg

Question 12

correct option B (4,430 m) cao **B1**

Answer: B) 4,430 m

Question 13

Finds the missing horizontal side: 9 - 4 = 5 m **M1**

Finds the missing vertical side: 5 - 2 = 3 m **M1**

Adds all six sides of the shape (oe, or uses 2 x (9 + 5)) **M1**

28 m cao **A1**

Answer: 28 m

Question 14

correct option A (28) cao **B1**

Answer: A) 28

Question 15

correct option D (35 g) cao **B1**

Answer: D) 35 g

Question 16

correct option E (82,900 ml) cao **B1**

Answer: E) 82,900 ml

Question 17

correct option C (150 cm) cao **B1**

Answer: C) 150 cm

Question 18

correct option D (36) cao **B1**

Answer: D) 36

Question 19

correct option B (845 cm) cao **B1**

Answer: B) 845 cm

Question 20

correct option C (804 cm) cao **B1**

Answer: C) 804 cm

Question 21

Converts 3.6 km to 3600 m (oe) **M1**

Converts 1 hour to 3600 seconds (oe) **M1**

1 m/s cso (answer is given, so full correct working must be shown) **A1**

Answer: 1 m/s (shown)

Question 22

correct option C (60) cao **B1**

Answer: C) 60

Question 23

(a) 320 + 275 + 380 (oe) **M1**

(a) 975 kg cao **A1**

(a) Answer: 975 kg

(b) Yes, with correct reason, ft from part a (e.g. 975 kg is less than 1000 kg, so it is within the limit, with 25 kg to spare) **B1**

(b) Answer: Yes; 975 kg is less than 1000 kg, so the van is within its limit, with 25 kg to spare.

© Revision Library | revisionlibrary.co.uk

Question 24

correct option D (120 cm) cao **B1**

Answer: D) 120 cm

Question 25

correct option D (485 cm) cao **B1**

Answer: D) 485 cm

Question 26

correct option D (941 cm) cao **B1**

Answer: D) 941 cm

Question 27

correct option A (5,390 cm) cao **B1**

Answer: A) 5,390 cm

Question 28

correct option D (50) cao **B1**

Answer: D) 50

Question 29

correct option E (240 cm) cao **B1**

Answer: E) 240 cm

Question 30

correct option A (68,200 m) cao **B1**

Answer: A) 68,200 m

Question 31

correct option B (873.6 kg) cao **B1**

Answer: B) 873.6 kg

Question 32

correct option E (290 cm) cao **B1**

Answer: E) 290 cm

Question 33

correct option B (585 cm) cao **B1**

Answer: B) 585 cm

Question 34

correct option E (109 cm) cao **B1**

Answer: E) 109 cm

Question 35

correct option E (8,406 cm) cao **B1**

Answer: E) 8,406 cm

Question 36

correct option A (20) cao **B1**

Answer: A) 20

Question 37

B cao **B1**

Answer: B) 45 cm

Question 38

correct option D (595 cm) cao **B1**

Answer: D) 595 cm

Question 39

correct option B (505.4 litres) cao **B1**

Answer: B) 505.4 litres

Question 40

750 ml cao **B1**

Answer: 750 ml

Question 41

correct option B (840.3 kg) cao **B1**

Answer: B) 840.3 kg

Question 42

correct option E (515 cm) cao **B1**

Answer: E) 515 cm

Question 43

correct option C (19 m) cao **B1**

Answer: C) 19 m

Question 44

correct option E (748 cm) cao **B1**

Answer: E) 748 cm

Question 45

Correct method, e.g. 7.5 + 3.5 (oe) or uses P = 2(l + w) **M1**

22 m cao **A1**

Answer: 22 m

Question 46

correct option E (6 glasses) cao **B1**

Answer: E) 6 glasses

Question 47

correct option D (300 km) cao **B1**

Answer: D) 300 km

Question 48

correct option D (1,083 cm) cao **B1**

Answer: D) 1,083 cm

Question 49

correct option B (695 cm) cao **B1**

Answer: B) 695 cm

Question 50

correct option E (44) cao **B1**

Answer: E) 44

Question 51

correct option E (230 cm) cao **B1**

Answer: E) 230 cm

Question 52

correct option E (592 km) cao **B1**

Answer: E) 592 km

© Revision Library | revisionlibrary.co.uk