2.10 Measures and Units: 1-hour Pack

GL ASSESSMENT GL · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A jug contains 2 litres of orange juice. Calculate how many 250 ml glasses can be completely filled from the jug.

(2)

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2 Convert 365,600 g to kg.

- ☐ A) 365.6 kg
- ☐ B) 36,560 kg
- ☐ C) 365,600,000 kg
- ☐ D) 36.56 kg
- ☐ E) 3,656 kg

---

3 Convert 82.8 km to m.

- ☐ A) 828 m
- ☐ B) 0.0828 m
- ☐ C) 828,000 m
- ☐ D) 8,280 m
- ☐ E) 82,800 m

---

4 Yusuf has a roll of ribbon 3 m long and cuts off 5 pieces that are each 20 cm long. How many centimetres of ribbon are left?

- ☐ A) 2,900 cm
- ☐ B) -70 cm
- ☐ C) 200 cm
- ☐ D) 100 cm
- ☐ E) -97 cm

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5 Convert 345,500 cm to m.

- [ ] A) 3,455 m
- [ ] B) 34,550 m
- [ ] C) 345.5 m
- [ ] D) 34,550,000 m
- [ ] E) 34.55 m

---

6 Convert 0.23 kg to g.

- [ ] A) 230 g
- [ ] B) 2.3 g
- [ ] C) 23 g
- [ ] D) 0.00023 g
- [ ] E) 2,300 g

---

7 A jug holds 10 litres. Ffion fills glasses that each hold 100 ml. How many glasses can be filled from a full jug?

- [ ] A) 99
- [ ] B) 1,000
- [ ] C) 101
- [ ] D) 10
- [ ] E) 100

---

8 Convert 75.2 cm to mm.

- [ ] A) 752,000 mm
- [ ] B) 752 mm
- [ ] C) 75,200 mm
- [ ] D) 7,520 mm
- [ ] E) 7.52 mm

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9 Anya has a roll of ribbon 4.5 m long and cuts off 9 pieces that are each 15 cm long. How many centimetres of ribbon are left?

- ☐ A) 4,365 cm
- ☐ B) 435 cm
- ☐ C) 315 cm
- ☐ D) -90 cm
- ☐ E) -130.5 cm

---

10 A parcel has a total mass of 2.4 kg. The packaging alone has a mass of 350 g. Calculate the mass of the contents of the parcel. Give your answer in grams.

(3)

---

11 Convert 54.7 litres to ml.

- ☐ A) 0.0547 ml
- ☐ B) 547 ml
- ☐ C) 5,470 ml
- ☐ D) 54,700 ml
- ☐ E) 547,000 ml

---

12 Noah has a roll of ribbon 7 m long and cuts off 7 pieces that are each 30 cm long. How many centimetres of ribbon are left?

- ☐ A) 210 cm
- ☐ B) 670 cm
- ☐ C) 490 cm
- ☐ D) -203 cm
- ☐ E) -140 cm

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13 A jug holds 3 litres. Niamh fills glasses that each hold 100 ml. How many glasses can be filled from a full jug?

- [ ] A) 29
- [ ] B) 300
- [ ] C) 3
- [ ] D) 30
- [ ] E) 31

---

14 Convert 5,745,000 g to kg.

- [ ] A) 574,500 kg
- [ ] B) 57,450 kg
- [ ] C) 5,745,000,000 kg
- [ ] D) 574.5 kg
- [ ] E) 5,745 kg

---

15 A jug holds 9 litres. Ravi fills glasses that each hold 125 ml. How many glasses can be filled from a full jug?

- [ ] A) 72
- [ ] B) 720
- [ ] C) 73
- [ ] D) 71
- [ ] E) 1,125

---

16 Imogen has a roll of ribbon 3.5 m long and cuts off 5 pieces that are each 45 cm long. How many centimetres of ribbon are left?

- [ ] A) -221.5 cm
- [ ] B) 225 cm
- [ ] C) -190 cm
- [ ] D) 126 cm
- [ ] E) 125 cm

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17 Convert 500,300 ml to litres.

- [ ] A) 50,030 litres
- [ ] B) 500,300,000 litres
- [ ] C) 500.3 litres
- [ ] D) 5,003 litres
- [ ] E) 50.03 litres

---

18 Noah has a roll of ribbon 8.5 m long and cuts off 3 pieces that are each 55 cm long. How many centimetres of ribbon are left?

- [ ] A) 684 cm
- [ ] B) -156.5 cm
- [ ] C) 686 cm
- [ ] D) 685 cm
- [ ] E) -80 cm

---

19 Convert 734,900 cm to m.

- [ ] A) 7,349 m
- [ ] B) 73,490 m
- [ ] C) 73.49 m
- [ ] D) 73,490,000 m
- [ ] E) 734.9 m

---

20 Zainab has a roll of ribbon 8 m long and cuts off 3 pieces that are each 15 cm long. How many centimetres of ribbon are left?

- [ ] A) 35 cm
- [ ] B) 756 cm
- [ ] C) 755 cm
- [ ] D) -37 cm
- [ ] E) 785 cm

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21 Convert 1,132,000 m to km.

- [ ] A) 11,320 km
- [ ] B) 113,200 km
- [ ] C) 1,132,000,000 km
- [ ] D) 1,132 km
- [ ] E) 113.2 km

---

22 Amara has a roll of ribbon 8.5 m long and cuts off 8 pieces that are each 30 cm long. How many centimetres of ribbon are left?

- [ ] A) -231.5 cm
- [ ] B) -155 cm
- [ ] C) 820 cm
- [ ] D) 609 cm
- [ ] E) 610 cm

---

23 Convert 4,845,000 m to km.

- [ ] A) 4,845,000,000 km
- [ ] B) 4,845 km
- [ ] C) 484.5 km
- [ ] D) 484,500 km
- [ ] E) 48,450 km

---

24 Kwame has a roll of ribbon 7.5 m long and cuts off 5 pieces that are each 15 cm long. How many centimetres of ribbon are left?

- [ ] A) 675 cm
- [ ] B) 0 cm
- [ ] C) 7,425 cm
- [ ] D) -67.5 cm
- [ ] E) 674 cm

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25 Convert 2.4 kg to g.

- [ ] A) 240 g
- [ ] B) 2,400 g
- [ ] C) 0.0024 g
- [ ] D) 24 g
- [ ] E) 24,000 g

---

26 Convert 68,030 mm to cm.

- [ ] A) 68.03 cm
- [ ] B) 680,300 cm
- [ ] C) 6.803 cm
- [ ] D) 680.3 cm
- [ ] E) 6,803 cm

---

27 Rhys has a roll of ribbon 3.5 m long and cuts off 4 pieces that are each 45 cm long. How many centimetres of ribbon are left?

- [ ] A) 180 cm
- [ ] B) -176.5 cm
- [ ] C) 170 cm
- [ ] D) -145 cm
- [ ] E) 171 cm

---

28 A jug holds 7 litres. Ethan fills glasses that each hold 500 ml. How many glasses can be filled from a full jug?

- [ ] A) 3,500
- [ ] B) 140
- [ ] C) 15
- [ ] D) 14
- [ ] E) 13

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29 Convert 10.2 cm to mm.

- [ ] A) 1.02 mm
- [ ] B) 102,000 mm
- [ ] C) 102 mm
- [ ] D) 10,200 mm
- [ ] E) 1,020 mm

---

30 Jack has a roll of ribbon 9 m long and cuts off 3 pieces that are each 30 cm long. How many centimetres of ribbon are left?

- [ ] A) 810 cm
- [ ] B) 8,910 cm
- [ ] C) -81 cm
- [ ] D) 0 cm
- [ ] E) 870 cm

---

31 Ben has a roll of ribbon 9.25 m long and cuts off 8 pieces that are each 10 cm long. How many centimetres of ribbon are left?

- [ ] A) 12.5 cm
- [ ] B) 845 cm
- [ ] C) 846 cm
- [ ] D) -70.75 cm
- [ ] E) 80 cm

---

32 Convert 4.78 m to cm.

- [ ] A) 4,780 cm
- [ ] B) 0.0478 cm
- [ ] C) 47,800 cm
- [ ] D) 47.8 cm
- [ ] E) 478 cm

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33 A jug holds 5 litres. Oliver fills glasses that each hold 200 ml. How many glasses can be filled from a full jug?

- [ ] A) 1,000
- [ ] B) 24
- [ ] C) 25
- [ ] D) 26
- [ ] E) 250

---

34 Convert 5.82 kg to g.

- [ ] A) 58.2 g
- [ ] B) 0.00582 g
- [ ] C) 582 g
- [ ] D) 5,820 g
- [ ] E) 58,200 g

---

35 A jug holds 11 litres. Ravi fills glasses that each hold 100 ml. How many glasses can be filled from a full jug?

- [ ] A) 110
- [ ] B) 11
- [ ] C) 1,100
- [ ] D) 111
- [ ] E) 109

---

36 Convert 110,000 m to km.

- [ ] A) 11,000 km
- [ ] B) 110 km
- [ ] C) 1,100 km
- [ ] D) 11 km
- [ ] E) 110,000,000 km

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37 Convert 69.7 litres to ml.

- [ ] A) 697 ml
- [ ] B) 69,700 ml
- [ ] C) 697,000 ml
- [ ] D) 0.0697 ml
- [ ] E) 6,970 ml

---

38 A jug holds 9 litres. Megan fills glasses that each hold 500 ml. How many glasses can be filled from a full jug?

- [ ] A) 18
- [ ] B) 17
- [ ] C) 4,500
- [ ] D) 19
- [ ] E) 180

---

39 Convert 9.52 cm to mm.

- [ ] A) 95,200 mm
- [ ] B) 952 mm
- [ ] C) 0.952 mm
- [ ] D) 9,520 mm
- [ ] E) 95.2 mm

---

40 Convert 856 cm to mm.

- [ ] A) 8,560 mm
- [ ] B) 85.6 mm
- [ ] C) 8,560,000 mm
- [ ] D) 85,600 mm
- [ ] E) 856,000 mm

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41 A jug holds 6 litres. Amara fills glasses that each hold 125 ml. How many glasses can be filled from a full jug?

- ☐ A) 49
- ☐ B) 480
- ☐ C) 47
- ☐ D) 750
- ☐ E) 48

---

42 Convert 1,665,000 m to km.

- ☐ A) 166.5 km
- ☐ B) 166,500 km
- ☐ C) 1,665,000,000 km
- ☐ D) 1,665 km
- ☐ E) 16,650 km

---

43 A rectangular wall measures 4.2 m by 2.5 m. It has one square window of side 0.6 m which will not be painted.

(a) Calculate the area of the wall that needs to be painted, in m^2. **(4)**

.....

(b) One tin of paint covers 5 m^2 and costs £8.50. Calculate the total cost of the tins of paint needed to cover the wall. **(2)**

.....

---

44 Convert 661 cm to mm.

- ☐ A) 661,000 mm
- ☐ B) 66,100 mm
- ☐ C) 6,610 mm
- ☐ D) 66.1 mm
- ☐ E) 6,610,000 mm

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45 A jug holds 8 litres. Hamza fills glasses that each hold 250 ml. How many glasses can be filled from a full jug?

- [ ] A) 320
- [ ] B) 31
- [ ] C) 33
- [ ] D) 32
- [ ] E) 2,000

---

46 Convert 3.11 kg to g.

- [ ] A) 31,100 g
- [ ] B) 31.1 g
- [ ] C) 0.00311 g
- [ ] D) 311 g
- [ ] E) 3,110 g

---

47 Anya has a roll of ribbon 6.5 m long and cuts off 6 pieces that are each 25 cm long. How many centimetres of ribbon are left?

- [ ] A) 500 cm
- [ ] B) 6,350 cm
- [ ] C) -143.5 cm
- [ ] D) 625 cm
- [ ] E) -85 cm

---

48 Convert 21.3 km to m.

- [ ] A) 2,130 m
- [ ] B) 0.0213 m
- [ ] C) 21,300 m
- [ ] D) 213 m
- [ ] E) 213,000 m

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49 Ben has a roll of ribbon 9.75 m long and cuts off 8 pieces that are each 20 cm long. How many centimetres of ribbon are left?

- [ ] A) 9,590 cm
- [ ] B) 815 cm
- [ ] C) -150.25 cm
- [ ] D) -62.5 cm
- [ ] E) 816 cm

---

50 A jug holds 9 litres. Declan fills glasses that each hold 200 ml. How many glasses can be filled from a full jug?

- [ ] A) 45
- [ ] B) 46
- [ ] C) 1,800
- [ ] D) 44
- [ ] E) 450

---

51 Convert 63,000 mm to cm.

- [ ] A) 6.3 cm
- [ ] B) 63 cm
- [ ] C) 630 cm
- [ ] D) 630,000 cm
- [ ] E) 6,300 cm

---

52 Tom has a roll of ribbon 5.5 m long and cuts off 7 pieces that are each 40 cm long. How many centimetres of ribbon are left?

- [ ] A) 280 cm
- [ ] B) 269 cm
- [ ] C) -225 cm
- [ ] D) 270 cm
- [ ] E) -274.5 cm

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53 Convert 0.99 litres to ml.

- [ ] A) 99 ml
- [ ] B) 990 ml
- [ ] C) 9.9 ml
- [ ] D) 9,900 ml
- [ ] E) 0.00099 ml

---

54 Ewan has a roll of ribbon 3.75 m long and cuts off 7 pieces that are each 50 cm long. How many centimetres of ribbon are left?

- [ ] A) 25 cm
- [ ] B) 26 cm
- [ ] C) 325 cm
- [ ] D) -312.5 cm
- [ ] E) -346.25 cm

---

55 Convert 26,330 mm to cm.

- [ ] A) 263,300 cm
- [ ] B) 26.33 cm
- [ ] C) 263.3 cm
- [ ] D) 2.633 cm
- [ ] E) 2,633 cm

---

56 Convert 863,600 cm to m.

- [ ] A) 86,360 m
- [ ] B) 8,636 m
- [ ] C) 86.36 m
- [ ] D) 86,360,000 m
- [ ] E) 863.6 m

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Mark scheme · 2.10 Measures and Units: 1-hour Pack

Question 1

Converts 2 litres to 2000 ml (oe) **M1**

8 (glasses) cao **A1**

Answer: 8 glasses

Question 2

correct option A (365.6 kg) cao **B1**

Answer: A) 365.6 kg

Question 3

correct option E (82,800 m) cao **B1**

Answer: E) 82,800 m

Question 4

correct option C (200 cm) cao **B1**

Answer: C) 200 cm

Question 5

correct option A (3,455 m) cao **B1**

Answer: A) 3,455 m

Question 6

correct option A (230 g) cao **B1**

Answer: A) 230 g

Question 7

correct option E (100) cao **B1**

Answer: E) 100

Question 8

correct option B (752 mm) cao **B1**

Answer: B) 752 mm

Question 9

correct option C (315 cm) cao **B1**

Answer: C) 315 cm

Question 10

Converts 2.4 kg to 2400 g **M1**

Subtracts 350 from their 2400 (oe) **M1**

2050 g cao **A1**

Answer: 2050 g

Question 11

correct option D (54,700 ml) cao **B1**

Answer: D) 54,700 ml

Question 12

correct option C (490 cm) cao **B1**

Answer: C) 490 cm

Question 13

correct option D (30) cao **B1**

Answer: D) 30

Question 14

correct option E (5,745 kg) cao **B1**

Answer: E) 5,745 kg

Question 15

correct option A (72) cao **B1**

Answer: A) 72

Question 16

correct option E (125 cm) cao **B1**

Answer: E) 125 cm

Question 17

correct option C (500.3 litres) cao **B1**

Answer: C) 500.3 litres

Question 18

correct option D (685 cm) cao **B1**

Answer: D) 685 cm

Question 19

correct option A (7,349 m) cao **B1**

Answer: A) 7,349 m

Question 20

correct option C (755 cm) cao **B1**

Answer: C) 755 cm

Question 21

correct option D (1,132 km) cao **B1**

Answer: D) 1,132 km

Question 22

correct option E (610 cm) cao **B1**

Answer: E) 610 cm

Question 23

correct option B (4,845 km) cao **B1**

Answer: B) 4,845 km

Question 24

correct option A (675 cm) cao **B1**

Answer: A) 675 cm

Question 25

correct option B (2,400 g) cao **B1**

Answer: B) 2,400 g

Question 26

correct option E (6,803 cm) cao **B1**

Answer: E) 6,803 cm

Question 27

correct option C (170 cm) cao **B1**

Answer: C) 170 cm

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Question 28

correct option D (14) cao **B1**

Answer: D) 14

Question 29

correct option C (102 mm) cao **B1**

Answer: C) 102 mm

Question 30

correct option A (810 cm) cao **B1**

Answer: A) 810 cm

Question 31

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

Answer: B) 845 cm

Question 32

correct option E (478 cm) cao **B1**

Answer: E) 478 cm

Question 33

correct option C (25) cao **B1**

Answer: C) 25

Question 34

correct option D (5,820 g) cao **B1**

Answer: D) 5,820 g

Question 35

correct option A (110) cao **B1**

Answer: A) 110

Question 36

correct option B (110 km) cao **B1**

Answer: B) 110 km

Question 37

correct option B (69,700 ml) cao **B1**

Answer: B) 69,700 ml

Question 38

correct option A (18) cao **B1**

Answer: A) 18

Question 39

correct option E (95.2 mm) cao **B1**

Answer: E) 95.2 mm

Question 40

correct option A (8,560 mm) cao **B1**

Answer: A) 8,560 mm

Question 41

correct option E (48) cao **B1**

Answer: E) 48

Question 42

correct option D (1,665 km) cao **B1**

Answer: D) 1,665 km

Question 43

(a) Wall area = 4.2 x 2.5 = 10.5 (m^2) **M1**

(a) Window area = 0.6 x 0.6 = 0.36 (m^2) **M1**

(a) Subtracts the window area from the wall area (oe) **M1**

(a) 10.14 m^2 cao **A1**

(a) Answer: 10.14 m^2

(b) 10.14 / 5 = 2.028, rounds up to 3 whole tins, ft from part a **M1**

(b) £25.50 cao (ft) **A1**

(b) Answer: £25.50 (3 tins needed)

Question 44

correct option C (6,610 mm) cao **B1**

Answer: C) 6,610 mm

Question 45

correct option D (32) cao **B1**

Answer: D) 32

Question 46

correct option E (3,110 g) cao **B1**

Answer: E) 3,110 g

Question 47

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

Answer: A) 500 cm

Question 48

correct option C (21,300 m) cao **B1**

Answer: C) 21,300 m

Question 49

correct option B (815 cm) cao **B1**

Answer: B) 815 cm

Question 50

correct option A (45) cao **B1**

Answer: A) 45

Question 51

correct option E (6,300 cm) cao **B1**

Answer: E) 6,300 cm

Question 52

correct option D (270 cm) cao **B1**

Answer: D) 270 cm

Question 53

correct option B (990 ml) cao **B1**

Answer: B) 990 ml

Question 54

correct option A (25 cm) cao **B1**

Answer: A) 25 cm

Question 55

correct option E (2,633 cm) cao **B1**

Answer: E) 2,633 cm

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Question 56

correct option B (8,636 m) cao **B1**

Answer: B) 8,636 m

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