2.97 Reading Scales and Measuring Instruments: 1-hour Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The scale on a measuring jug has a mark every 2 ml. The pointer is 3 marks above the 28 ml mark. What does it show?

- ☐ A) 33 ml
- ☐ B) 22 ml
- ☐ C) 31 ml
- ☐ D) 40 ml
- ☐ E) 34 ml

---

2 The pointer on a measuring jug is exactly halfway between the 60 ml mark and the 80 ml mark. What reading does it show?

- ☐ A) 60 ml
- ☐ B) 70 ml
- ☐ C) 80 ml
- ☐ D) 140 ml
- ☐ E) 71 ml

---

3 The pointer on a bathroom scale is exactly halfway between the 450 kg mark and the 500 kg mark. What reading does it show?

- ☐ A) 475 kg
- ☐ B) 950 kg
- ☐ C) 476 kg
- ☐ D) 450 kg
- ☐ E) 500 kg

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4 The scale on a bathroom scale has a mark every 20 kg. The pointer is 3 marks above the 100 kg mark. What does it show?

- [ ] A) 103 kg
- [ ] B) 159 kg
- [ ] C) 40 kg
- [ ] D) 220 kg
- [ ] E) 160 kg

---

5 The scale on a bathroom scale has a mark every 10 kg. The pointer is 2 marks above the 30 kg mark. What does it show?

- [ ] A) 50 kg
- [ ] B) 49 kg
- [ ] C) 70 kg
- [ ] D) 32 kg
- [ ] E) 10 kg

---

6 The scale on a ruler has a mark every 25 cm. The pointer is 2 marks above the 650 cm mark. What does it show?

- [ ] A) 652 cm
- [ ] B) 699 cm
- [ ] C) 750 cm
- [ ] D) 700 cm
- [ ] E) 725 cm

---

7 A measuring jug has marks labelled 1.0 L and 2.0 L. There are 5 equal divisions between these two marks. A meniscus sits at the third division above the 1.0 L mark. What is the volume shown?

- [ ] A) 1.4 L
- [ ] B) 1.6 L
- [ ] C) 1.5 L
- [ ] D) 1.2 L
- [ ] E) 1.8 L

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8 The pointer on a ruler is exactly halfway between the 20 cm mark and the 40 cm mark. What reading does it show?

- [ ] A) 29 cm
- [ ] B) 40 cm
- [ ] C) 30 cm
- [ ] D) 31 cm
- [ ] E) 20 cm

---

9 The scale on a measuring jug has a mark every 2 ml. The pointer is 4 marks above the 36 ml mark. What does it show?

- [ ] A) 46 ml
- [ ] B) 40 ml
- [ ] C) 28 ml
- [ ] D) 52 ml
- [ ] E) 44 ml

---

10 The scale on a measuring jug has a mark every 2 ml. The pointer is 4 marks above the 12 ml mark. What does it show?

- [ ] A) 16 ml
- [ ] B) 28 ml
- [ ] C) 19 ml
- [ ] D) 20 ml
- [ ] E) 21 ml

---

11 The scale on a bathroom scale has a mark every 2 kg. The pointer is 2 marks above the 30 kg mark. What does it show?

- [ ] A) 34 kg
- [ ] B) 32 kg
- [ ] C) 38 kg
- [ ] D) 26 kg
- [ ] E) 35 kg

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12 The pointer on a ruler is exactly halfway between the 90 cm mark and the 100 cm mark. What reading does it show?

- [ ] A) 100 cm
- [ ] B) 190 cm
- [ ] C) 96 cm
- [ ] D) 95 cm
- [ ] E) 90 cm

---

13 The scale on a ruler has a mark every 5 cm. The pointer is 1 mark above the 70 cm mark. What does it show?

- [ ] A) 75 cm
- [ ] B) 65 cm
- [ ] C) 71 cm
- [ ] D) 74 cm
- [ ] E) 80 cm

---

14 The scale on a ruler has a mark every 20 cm. The pointer is 2 marks above the 800 cm mark. What does it show?

- [ ] A) 820 cm
- [ ] B) 880 cm
- [ ] C) 840 cm
- [ ] D) 802 cm
- [ ] E) 841 cm

---

15 The scale on a measuring jug has a mark every 50 ml. The pointer is 1 mark above the 850 ml mark. What does it show?

- [ ] A) 901 ml
- [ ] B) 800 ml
- [ ] C) 851 ml
- [ ] D) 950 ml
- [ ] E) 900 ml

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16 The scale on a measuring jug has a mark every 50 ml. The pointer is 1 mark above the 1900 ml mark. What does it show?

- [ ] A) 1,850 ml
- [ ] B) 1,949 ml
- [ ] C) 2,000 ml
- [ ] D) 1,950 ml
- [ ] E) 1,901 ml

---

17 A thermometer has marks labelled 10 degrees and 20 degrees. There are 4 equal divisions between these two marks. A pointer is at the second division above 10 degrees. What is the temperature reading?

- [ ] A) 12.5 degrees
- [ ] B) 15 degrees
- [ ] C) 17.5 degrees
- [ ] D) 14 degrees
- [ ] E) 20 degrees

---

18 The pointer on a ruler is exactly halfway between the 300 cm mark and the 320 cm mark. What reading does it show?

- [ ] A) 10 cm
- [ ] B) 320 cm
- [ ] C) 300 cm
- [ ] D) 309 cm
- [ ] E) 310 cm

---

19 The pointer on a measuring jug is exactly halfway between the 20 ml mark and the 30 ml mark. What reading does it show?

- [ ] A) 5 ml
- [ ] B) 22 ml
- [ ] C) 25 ml
- [ ] D) 20 ml
- [ ] E) 30 ml

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20 The pointer on a ruler is exactly halfway between the 400 cm mark and the 600 cm mark. What reading does it show?

- [ ] A) 450 cm
- [ ] B) 500 cm
- [ ] C) 400 cm
- [ ] D) 600 cm
- [ ] E) 1,000 cm

---

21 The scale on a ruler has a mark every 2 cm. The pointer is 2 marks above the 34 cm mark. What does it show?

- [ ] A) 42 cm
- [ ] B) 36 cm
- [ ] C) 54 cm
- [ ] D) 39 cm
- [ ] E) 38 cm

---

22 The scale on a measuring jug has a mark every 10 ml. The pointer is 2 marks above the 40 ml mark. What does it show?

- [ ] A) 60 ml
- [ ] B) 80 ml
- [ ] C) 42 ml
- [ ] D) 59 ml
- [ ] E) 61 ml

---

23 The scale on a ruler has a mark every 5 cm. The pointer is 3 marks above the 45 cm mark. What does it show?

- [ ] A) 48 cm
- [ ] B) 59 cm
- [ ] C) 60 cm
- [ ] D) 61 cm
- [ ] E) 75 cm

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24 The scale on a measuring jug has a mark every 50 ml. The pointer is 3 marks above the 800 ml mark. What does it show?

- [ ] A) 1,100 ml
- [ ] B) 951 ml
- [ ] C) 803 ml
- [ ] D) 950 ml
- [ ] E) 650 ml

---

25 The scale on a measuring jug has a mark every 25 ml. The pointer is 3 marks above the 150 ml mark. What does it show?

- [ ] A) 226 ml
- [ ] B) 180 ml
- [ ] C) 153 ml
- [ ] D) 300 ml
- [ ] E) 225 ml

---

26 The pointer on a bathroom scale is exactly halfway between the 650 kg mark and the 700 kg mark. What reading does it show?

- [ ] A) 700 kg
- [ ] B) 650 kg
- [ ] C) 675 kg
- [ ] D) 674 kg
- [ ] E) 1,350 kg

---

27 The scale on a ruler has a mark every 5 cm. The pointer is 3 marks above the 30 cm mark. What does it show?

- [ ] A) 60 cm
- [ ] B) 33 cm
- [ ] C) 15 cm
- [ ] D) 45 cm
- [ ] E) 50 cm

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28 The pointer on a bathroom scale is exactly halfway between the 40 kg mark and the 60 kg mark. What reading does it show?

- [ ] A) 10 kg
- [ ] B) 50 kg
- [ ] C) 51 kg
- [ ] D) 60 kg
- [ ] E) 40 kg

---

29 The scale on a kitchen scale has a mark every 25 g. The pointer is 1 mark above the 325 g mark. What does it show?

- [ ] A) 375 g
- [ ] B) 349 g
- [ ] C) 326 g
- [ ] D) 300 g
- [ ] E) 350 g

---

30 The pointer on a kitchen scale is exactly halfway between the 850 g mark and the 900 g mark. What reading does it show?

- [ ] A) 874 g
- [ ] B) 900 g
- [ ] C) 25 g
- [ ] D) 875 g
- [ ] E) 850 g

---

31 The scale on a measuring jug has a mark every 50 ml. The pointer is 1 mark above the 400 ml mark. What does it show?

- [ ] A) 350 ml
- [ ] B) 450 ml
- [ ] C) 500 ml
- [ ] D) 410 ml
- [ ] E) 401 ml

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32 The scale on a measuring jug has a mark every 2 ml. The pointer is 4 marks above the 24 ml mark. What does it show?

- [ ] A) 34 ml
- [ ] B) 40 ml
- [ ] C) 32 ml
- [ ] D) 31 ml
- [ ] E) 28 ml

---

33 The pointer on a bathroom scale is exactly halfway between the 40 kg mark and the 50 kg mark. What reading does it show?

- [ ] A) 5 kg
- [ ] B) 45 kg
- [ ] C) 40 kg
- [ ] D) 50 kg
- [ ] E) 46 kg

---

34 The pointer on a kitchen scale is exactly halfway between the 130 g mark and the 140 g mark. What reading does it show?

- [ ] A) 270 g
- [ ] B) 136 g
- [ ] C) 140 g
- [ ] D) 135 g
- [ ] E) 130 g

---

35 A ruler is marked 0 cm and 5 cm, with 20 equal divisions between them. A point is at the 7th small division from 0. What is the measurement shown?

- [ ] A) 1.7 cm
- [ ] B) 1.75 cm
- [ ] C) 1.25 cm
- [ ] D) 1.9 cm
- [ ] E) 1.8 cm

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36 The scale on a ruler has a mark every 25 cm. The pointer is 1 mark above the 500 cm mark. What does it show?

- [ ] A) 501 cm
- [ ] B) 550 cm
- [ ] C) 526 cm
- [ ] D) 475 cm
- [ ] E) 525 cm

---

37 The pointer on a measuring jug is exactly halfway between the 400 ml mark and the 420 ml mark. What reading does it show?

- [ ] A) 420 ml
- [ ] B) 820 ml
- [ ] C) 410 ml
- [ ] D) 405 ml
- [ ] E) 400 ml

---

38 The scale on a bathroom scale has a mark every 2 kg. The pointer is 2 marks above the 14 kg mark. What does it show?

- [ ] A) 18 kg
- [ ] B) 17 kg
- [ ] C) 16 kg
- [ ] D) 19 kg
- [ ] E) 22 kg

---

39 The pointer on a bathroom scale is exactly halfway between the 1500 kg mark and the 1600 kg mark. What reading does it show?

- [ ] A) 1,600 kg
- [ ] B) 1,551 kg
- [ ] C) 50 kg
- [ ] D) 1,550 kg
- [ ] E) 1,500 kg

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40 The scale on a measuring jug has a mark every 10 ml. The pointer is 3 marks above the 320 ml mark. What does it show?

- [ ] A) 350 ml
- [ ] B) 380 ml
- [ ] C) 349 ml
- [ ] D) 351 ml
- [ ] E) 323 ml

---

41 The scale on a ruler has a mark every 5 cm. The pointer is 4 marks above the 15 cm mark. What does it show?

- [ ] A) 40 cm
- [ ] B) 35 cm
- [ ] C) 19 cm
- [ ] D) 34 cm
- [ ] E) 55 cm

---

42 The scale on a bathroom scale has a mark every 10 kg. The pointer is 3 marks above the 100 kg mark. What does it show?

- [ ] A) 103 kg
- [ ] B) 160 kg
- [ ] C) 130 kg
- [ ] D) 70 kg
- [ ] E) 131 kg

---

43 The pointer on a bathroom scale is exactly halfway between the 1200 kg mark and the 1300 kg mark. What reading does it show?

- [ ] A) 1,250 kg
- [ ] B) 1,225 kg
- [ ] C) 1,200 kg
- [ ] D) 1,249 kg
- [ ] E) 1,300 kg

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44 The scale on a kitchen scale has a mark every 25 g. The pointer is 4 marks above the 425 g mark. What does it show?

- [ ] A) 429 g
- [ ] B) 525 g
- [ ] C) 550 g
- [ ] D) 625 g
- [ ] E) 325 g

---

45 The pointer on a bathroom scale is exactly halfway between the 240 kg mark and the 260 kg mark. What reading does it show?

- [ ] A) 245 kg
- [ ] B) 10 kg
- [ ] C) 250 kg
- [ ] D) 260 kg
- [ ] E) 240 kg

---

46 The pointer on a measuring jug is exactly halfway between the 1100 ml mark and the 1200 ml mark. What reading does it show?

- [ ] A) 1,151 ml
- [ ] B) 1,100 ml
- [ ] C) 1,125 ml
- [ ] D) 1,200 ml
- [ ] E) 1,150 ml

---

47 The pointer on a bathroom scale is exactly halfway between the 100 kg mark and the 200 kg mark. What reading does it show?

- [ ] A) 150 kg
- [ ] B) 300 kg
- [ ] C) 100 kg
- [ ] D) 200 kg
- [ ] E) 149 kg

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48 The scale on a kitchen scale has a mark every 25 g. The pointer is 4 marks above the 700 g mark. What does it show?

- [ ] A) 600 g
- [ ] B) 900 g
- [ ] C) 740 g
- [ ] D) 800 g
- [ ] E) 704 g

---

49 The scale on a kitchen scale has a mark every 50 g. The pointer is 3 marks above the 350 g mark. What does it show?

- [ ] A) 353 g
- [ ] B) 550 g
- [ ] C) 501 g
- [ ] D) 650 g
- [ ] E) 500 g

---

50 The scale on a bathroom scale has a mark every 10 kg. The pointer is 2 marks above the 220 kg mark. What does it show?

- [ ] A) 239 kg
- [ ] B) 240 kg
- [ ] C) 222 kg
- [ ] D) 241 kg
- [ ] E) 260 kg

---

51 The pointer on a bathroom scale is exactly halfway between the 200 kg mark and the 300 kg mark. What reading does it show?

- [ ] A) 300 kg
- [ ] B) 500 kg
- [ ] C) 250 kg
- [ ] D) 200 kg
- [ ] E) 50 kg

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52 The pointer on a measuring jug is exactly halfway between the 400 ml mark and the 500 ml mark. What reading does it show?

- [ ] A) 500 ml
- [ ] B) 449 ml
- [ ] C) 400 ml
- [ ] D) 900 ml
- [ ] E) 450 ml

---

53 The pointer on a measuring jug is exactly halfway between the 600 ml mark and the 800 ml mark. What reading does it show?

- [ ] A) 700 ml
- [ ] B) 800 ml
- [ ] C) 600 ml
- [ ] D) 650 ml
- [ ] E) 701 ml

---

54 The pointer on a bathroom scale is exactly halfway between the 4000 kg mark and the 4200 kg mark. What reading does it show?

- [ ] A) 8,200 kg
- [ ] B) 4,100 kg
- [ ] C) 4,200 kg
- [ ] D) 100 kg
- [ ] E) 4,000 kg

---

55 The pointer on a kitchen scale is exactly halfway between the 70 g mark and the 80 g mark. What reading does it show?

- [ ] A) 76 g
- [ ] B) 70 g
- [ ] C) 74 g
- [ ] D) 75 g
- [ ] E) 80 g

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56 The pointer on a bathroom scale is exactly halfway between the 200 kg mark and the 400 kg mark. What reading does it show?

- [ ] A) 400 kg
- [ ] B) 300 kg
- [ ] C) 250 kg
- [ ] D) 200 kg
- [ ] E) 600 kg

---

57 The scale on a kitchen scale has a mark every 25 g. The pointer is 2 marks above the 250 g mark. What does it show?

- [ ] A) 252 g
- [ ] B) 350 g
- [ ] C) 300 g
- [ ] D) 325 g
- [ ] E) 200 g

---

58 The pointer on a ruler is exactly halfway between the 280 cm mark and the 300 cm mark. What reading does it show?

- [ ] A) 580 cm
- [ ] B) 291 cm
- [ ] C) 280 cm
- [ ] D) 300 cm
- [ ] E) 290 cm

---

59 The scale on a kitchen scale has a mark every 5 g. The pointer is 3 marks above the 15 g mark. What does it show?

- [ ] A) 45 g
- [ ] B) 35 g
- [ ] C) 0 g
- [ ] D) 30 g
- [ ] E) 18 g

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60 The pointer on a bathroom scale is exactly halfway between the 2000 kg mark and the 2100 kg mark. What reading does it show?

- ☐ A) 2,050 kg
- ☐ B) 2,000 kg
- ☐ C) 4,100 kg
- ☐ D) 2,100 kg
- ☐ E) 2,051 kg

---

61 The scale on a bathroom scale has a mark every 2 kg. The pointer is 4 marks above the 30 kg mark. What does it show?

- ☐ A) 38 kg
- ☐ B) 39 kg
- ☐ C) 37 kg
- ☐ D) 46 kg
- ☐ E) 34 kg

---

62 The pointer on a ruler is exactly halfway between the 800 cm mark and the 850 cm mark. What reading does it show?

- ☐ A) 850 cm
- ☐ B) 800 cm
- ☐ C) 812 cm
- ☐ D) 825 cm
- ☐ E) 824 cm

---

63 A petrol pump display shows 0 L and 30 L with 5 equal divisions between the marks.

(a) Calculate the value of one small division. **(1)**

.....

(b) If the needle points at the second division above 0, what volume is shown? **(1)**

.....

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Mark scheme · 2.97 Reading Scales and Measuring Instruments: 1-hour Pack

Question 1

correct option E (34 ml) cao **B1**

Answer: E) 34 ml

Question 2

correct option B (70 ml) cao **B1**

Answer: B) 70 ml

Question 3

correct option A (475 kg) cao **B1**

Answer: A) 475 kg

Question 4

correct option E (160 kg) cao **B1**

Answer: E) 160 kg

Question 5

correct option A (50 kg) cao **B1**

Answer: A) 50 kg

Question 6

correct option D (700 cm) cao **B1**

Answer: D) 700 cm

Question 7

correct option B (1.6 L) cao **B1**

Answer: B) 1.6 L (each division = 1.0 L / 5 = 0.2 L, 3 divisions gives 1.0 + 0.6 = 1.6 L).

Question 8

correct option C (30 cm) cao **B1**

Answer: C) 30 cm

Question 9

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

Answer: E) 44 ml

Question 10

correct option D (20 ml) cao **B1**

Answer: D) 20 ml

Question 11

correct option A (34 kg) cao **B1**

Answer: A) 34 kg

Question 12

correct option D (95 cm) cao **B1**

Answer: D) 95 cm

Question 13

correct option A (75 cm) cao **B1**

Answer: A) 75 cm

Question 14

correct option C (840 cm) cao **B1**

Answer: C) 840 cm

Question 15

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

Answer: E) 900 ml

Question 16

correct option D (1,950 ml) cao **B1**

Answer: D) 1,950 ml

Question 17

correct option B (15 degrees) cao **B1**

Answer: B) 15 degrees (each division = 10 / 4 = 2.5 degrees; 10 + 2 x 2.5 = 15).

Question 18

correct option E (310 cm) cao **B1**

Answer: E) 310 cm

Question 19

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

Answer: C) 25 ml

Question 20

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

Answer: B) 500 cm

Question 21

correct option E (38 cm) cao **B1**

Answer: E) 38 cm

Question 22

correct option A (60 ml) cao **B1**

Answer: A) 60 ml

Question 23

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

Answer: C) 60 cm

Question 24

correct option D (950 ml) cao **B1**

Answer: D) 950 ml

Question 25

correct option E (225 ml) cao **B1**

Answer: E) 225 ml

Question 26

correct option C (675 kg) cao **B1**

Answer: C) 675 kg

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Question 27

correct option D (45 cm) cao **B1**

Answer: D) 45 cm

Question 28

correct option B (50 kg) cao **B1**

Answer: B) 50 kg

Question 29

correct option E (350 g) cao **B1**

Answer: E) 350 g

Question 30

correct option D (875 g) cao **B1**

Answer: D) 875 g

Question 31

correct option B (450 ml) cao **B1**

Answer: B) 450 ml

Question 32

correct option C (32 ml) cao **B1**

Answer: C) 32 ml

Question 33

correct option B (45 kg) cao **B1**

Answer: B) 45 kg

Question 34

correct option D (135 g) cao **B1**

Answer: D) 135 g

Question 35

correct option B (1.75 cm) cao **B1**

Answer: B) 1.75 cm (each division = 5 / 20 = 0.25 cm; 7 x 0.25 = 1.75 cm).

Question 36

correct option E (525 cm) cao **B1**

Answer: E) 525 cm

Question 37

correct option C (410 ml) cao **B1**

Answer: C) 410 ml

Question 38

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

Answer: A) 18 kg

Question 39

correct option D (1,550 kg) cao **B1**

Answer: D) 1,550 kg

Question 40

correct option A (350 ml) cao **B1**

Answer: A) 350 ml

Question 41

correct option B (35 cm) cao **B1**

Answer: B) 35 cm

Question 42

correct option C (130 kg) cao **B1**

Answer: C) 130 kg

Question 43

correct option A (1,250 kg) cao **B1**

Answer: A) 1,250 kg

Question 44

correct option B (525 g) cao **B1**

Answer: B) 525 g

Question 45

correct option C (250 kg) cao **B1**

Answer: C) 250 kg

Question 46

correct option E (1,150 ml) cao **B1**

Answer: E) 1,150 ml

Question 47

correct option A (150 kg) cao **B1**

Answer: A) 150 kg

Question 48

correct option D (800 g) cao **B1**

Answer: D) 800 g

Question 49

correct option E (500 g) cao **B1**

Answer: E) 500 g

Question 50

correct option B (240 kg) cao **B1**

Answer: B) 240 kg

Question 51

correct option C (250 kg) cao **B1**

Answer: C) 250 kg

Question 52

correct option E (450 ml) cao **B1**

Answer: E) 450 ml

Question 53

correct option A (700 ml) cao **B1**

Answer: A) 700 ml

Question 54

correct option B (4,100 kg) cao **B1**

Answer: B) 4,100 kg

Question 55

correct option D (75 g) cao **B1**

Answer: D) 75 g

Question 56

correct option B (300 kg) cao **B1**

Answer: B) 300 kg

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Question 57

correct option C (300 g) cao **B1**

Answer: C) 300 g

Question 58

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

Answer: E) 290 cm

Question 59

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

Answer: D) 30 g

Question 60

correct option A (2,050 kg) cao **B1**

Answer: A) 2,050 kg

Question 61

correct option A (38 kg) cao **B1**

Answer: A) 38 kg

Question 62

correct option D (825 cm) cao **B1**

Answer: D) 825 cm

Question 63

(a) 6 L cao **B1**

(a) Answer: 6 L

(b) 12 L cao **B1**

(b) Answer: 12 L

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