2.97 Reading Scales and Measuring Instruments: 30-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The pointer on a ruler is exactly halfway between the 220 cm mark and the 240 cm mark. What reading does it show?

- ☐ A) 240 cm
- ☐ B) 230 cm
- ☐ C) 220 cm
- ☐ D) 229 cm
- ☐ E) 10 cm

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2 The scale on a kitchen scale has a mark every 25 g. The pointer is 1 mark above the 175 g mark. What does it show?

- ☐ A) 225 g
- ☐ B) 185 g
- ☐ C) 201 g
- ☐ D) 176 g
- ☐ E) 200 g

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3 The scale on a bathroom scale has a mark every 25 kg. The pointer is 1 mark above the 250 kg mark. What does it show?

- ☐ A) 300 kg
- ☐ B) 274 kg
- ☐ C) 251 kg
- ☐ D) 275 kg
- ☐ E) 276 kg

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4 The pointer on a measuring jug is exactly halfway between the 250 ml mark and the 300 ml mark. What reading does it show?

- [ ] A) 25 ml
- [ ] B) 276 ml
- [ ] C) 275 ml
- [ ] D) 300 ml
- [ ] E) 250 ml

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5 The scale on a ruler has a mark every 5 cm. The pointer is 1 mark above the 190 cm mark. What does it show?

- [ ] A) 191 cm
- [ ] B) 200 cm
- [ ] C) 195 cm
- [ ] D) 194 cm
- [ ] E) 185 cm

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6 The pointer on a bathroom scale is exactly halfway between the 50 kg mark and the 60 kg mark. What reading does it show?

- [ ] A) 55 kg
- [ ] B) 52 kg
- [ ] C) 50 kg
- [ ] D) 60 kg
- [ ] E) 110 kg

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7 The scale on a ruler has a mark every 20 cm. The pointer is 4 marks above the 200 cm mark. What does it show?

- [ ] A) 279 cm
- [ ] B) 360 cm
- [ ] C) 281 cm
- [ ] D) 204 cm
- [ ] E) 280 cm

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8 The pointer on a bathroom scale is exactly halfway between the 3600 kg mark and the 3800 kg mark. What reading does it show?

- [ ] A) 3,800 kg
- [ ] B) 3,701 kg
- [ ] C) 100 kg
- [ ] D) 3,700 kg
- [ ] E) 3,600 kg

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9 The scale on a measuring jug has a mark every 20 ml. The pointer is 2 marks above the 680 ml mark. What does it show?

- [ ] A) 720 ml
- [ ] B) 740 ml
- [ ] C) 719 ml
- [ ] D) 760 ml
- [ ] E) 682 ml

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10 The scale on a bathroom scale has a mark every 25 kg. The pointer is 2 marks above the 100 kg mark. What does it show?

- [ ] A) 175 kg
- [ ] B) 200 kg
- [ ] C) 102 kg
- [ ] D) 50 kg
- [ ] E) 150 kg

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11 The scale on a ruler has a mark every 25 cm. The pointer is 1 mark above the 200 cm mark. What does it show?

- [ ] A) 201 cm
- [ ] B) 224 cm
- [ ] C) 250 cm
- [ ] D) 225 cm
- [ ] E) 210 cm

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12 The pointer on a ruler is exactly halfway between the 140 cm mark and the 160 cm mark. What reading does it show?

- [ ] A) 149 cm
- [ ] B) 150 cm
- [ ] C) 145 cm
- [ ] D) 160 cm
- [ ] E) 140 cm

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13 The scale on a measuring jug has a mark every 50 ml. The pointer is 2 marks above the 400 ml mark. What does it show?

- [ ] A) 499 ml
- [ ] B) 600 ml
- [ ] C) 500 ml
- [ ] D) 300 ml
- [ ] E) 402 ml

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14 The scale on a bathroom scale has a mark every 20 kg. The pointer is 1 mark above the 480 kg mark. What does it show?

- [ ] A) 520 kg
- [ ] B) 501 kg
- [ ] C) 481 kg
- [ ] D) 500 kg
- [ ] E) 490 kg

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15 The scale on a measuring jug has a mark every 10 ml. The pointer is 2 marks above the 140 ml mark. What does it show?

- [ ] A) 160 ml
- [ ] B) 120 ml
- [ ] C) 142 ml
- [ ] D) 161 ml
- [ ] E) 180 ml

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16 The pointer on a ruler is exactly halfway between the 160 cm mark and the 170 cm mark. What reading does it show?

- [ ] A) 160 cm
- [ ] B) 170 cm
- [ ] C) 165 cm
- [ ] D) 330 cm
- [ ] E) 166 cm

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17 The scale on a bathroom scale has a mark every 50 kg. The pointer is 2 marks above the 1800 kg mark. What does it show?

- [ ] A) 1,820 kg
- [ ] B) 1,900 kg
- [ ] C) 1,950 kg
- [ ] D) 1,802 kg
- [ ] E) 2,000 kg

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18 The scale on a ruler has a mark every 50 cm. The pointer is 1 mark above the 700 cm mark. What does it show?

- [ ] A) 750 cm
- [ ] B) 800 cm
- [ ] C) 749 cm
- [ ] D) 701 cm
- [ ] E) 710 cm

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19 The scale on a bathroom scale has a mark every 50 kg. The pointer is 1 mark above the 2000 kg mark. What does it show?

- [ ] A) 2,001 kg
- [ ] B) 2,100 kg
- [ ] C) 2,051 kg
- [ ] D) 2,050 kg
- [ ] E) 1,950 kg

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20 The scale on a measuring jug has a mark every 20 ml. The pointer is 1 mark above the 520 ml mark. What does it show?

- [ ] A) 521 ml
- [ ] B) 541 ml
- [ ] C) 530 ml
- [ ] D) 540 ml
- [ ] E) 560 ml

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21 The pointer on a measuring jug is exactly halfway between the 900 ml mark and the 1000 ml mark. What reading does it show?

- [ ] A) 900 ml
- [ ] B) 925 ml
- [ ] C) 950 ml
- [ ] D) 1,900 ml
- [ ] E) 1,000 ml

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22 The scale on a bathroom scale has a mark every 2 kg. The pointer is 3 marks above the 10 kg mark. What does it show?

- [ ] A) 13 kg
- [ ] B) 16 kg
- [ ] C) 40 kg
- [ ] D) 22 kg
- [ ] E) 15 kg

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23 The scale on a ruler has a mark every 25 cm. The pointer is 2 marks above the 350 cm mark. What does it show?

- [ ] A) 399 cm
- [ ] B) 352 cm
- [ ] C) 400 cm
- [ ] D) 401 cm
- [ ] E) 450 cm

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24 The scale on a ruler has a mark every 5 cm. The pointer is 4 marks above the 40 cm mark. What does it show?

- [ ] A) 60 cm
- [ ] B) 44 cm
- [ ] C) 80 cm
- [ ] D) 61 cm
- [ ] E) 65 cm

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25 The pointer on a bathroom scale is exactly halfway between the 3800 kg mark and the 4000 kg mark. What reading does it show?

- [ ] A) 7,800 kg
- [ ] B) 3,900 kg
- [ ] C) 4,000 kg
- [ ] D) 3,800 kg
- [ ] E) 3,901 kg

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26 The scale on a bathroom scale has a mark every 25 kg. The pointer is 1 mark above the 450 kg mark. What does it show?

- [ ] A) 500 kg
- [ ] B) 476 kg
- [ ] C) 425 kg
- [ ] D) 451 kg
- [ ] E) 475 kg

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27 The scale on a ruler has a mark every 20 cm. The pointer is 4 marks above the 120 cm mark. What does it show?

- [ ] A) 124 cm
- [ ] B) 160 cm
- [ ] C) 280 cm
- [ ] D) 200 cm
- [ ] E) 201 cm

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28 The pointer on a ruler is exactly halfway between the 100 cm mark and the 110 cm mark. What reading does it show?

- ☐ A) 100 cm
- ☐ B) 110 cm
- ☐ C) 104 cm
- ☐ D) 105 cm
- ☐ E) 210 cm

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29 The scale on a measuring jug has a mark every 5 ml. The pointer is 4 marks above the 110 ml mark. What does it show?

- ☐ A) 135 ml
- ☐ B) 114 ml
- ☐ C) 130 ml
- ☐ D) 90 ml
- ☐ E) 150 ml

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30 The scale on a bathroom scale has a mark every 10 kg. The pointer is 3 marks above the 140 kg mark. What does it show?

- ☐ A) 200 kg
- ☐ B) 169 kg
- ☐ C) 170 kg
- ☐ D) 110 kg
- ☐ E) 143 kg

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31 A small measuring cylinder is labelled 0 mL and 25 mL. There are 4 equal divisions between those marks.

(a) Calculate the volume represented by one small division. **(1)**

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(b) If the liquid level is at the 3rd division, what volume is that? **(1)**

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Mark scheme · 2.97 Reading Scales and Measuring Instruments: 30-minute Pack

Question 1

correct option B (230 cm) cao — **B1**

Answer: B) 230 cm

Question 2

correct option E (200 g) cao — **B1**

Answer: E) 200 g

Question 3

correct option D (275 kg) cao — **B1**

Answer: D) 275 kg

Question 4

correct option C (275 ml) cao — **B1**

Answer: C) 275 ml

Question 5

correct option C (195 cm) cao — **B1**

Answer: C) 195 cm

Question 6

correct option A (55 kg) cao — **B1**

Answer: A) 55 kg

Question 7

correct option E (280 cm) cao — **B1**

Answer: E) 280 cm

Question 8

correct option D (3,700 kg) cao — **B1**

Answer: D) 3,700 kg

Question 9

correct option A (720 ml) cao — **B1**

Answer: A) 720 ml

Question 10

correct option E (150 kg) cao — **B1**

Answer: E) 150 kg

Question 11

correct option D (225 cm) cao — **B1**

Answer: D) 225 cm

Question 12

correct option B (150 cm) cao — **B1**

Answer: B) 150 cm

Question 13

correct option C (500 ml) cao — **B1**

Answer: C) 500 ml

Question 14

correct option D (500 kg) cao — **B1**

Answer: D) 500 kg

Question 15

correct option A (160 ml) cao — **B1**

Answer: A) 160 ml

Question 16

correct option C (165 cm) cao — **B1**

Answer: C) 165 cm

Question 17

correct option B (1,900 kg) cao — **B1**

Answer: B) 1,900 kg

Question 18

correct option A (750 cm) cao — **B1**

Answer: A) 750 cm

Question 19

correct option D (2,050 kg) cao — **B1**

Answer: D) 2,050 kg

Question 20

correct option D (540 ml) cao — **B1**

Answer: D) 540 ml

Question 21

correct option C (950 ml) cao — **B1**

Answer: C) 950 ml

Question 22

correct option B (16 kg) cao — **B1**

Answer: B) 16 kg

Question 23

correct option C (400 cm) cao — **B1**

Answer: C) 400 cm

Question 24

correct option A (60 cm) cao — **B1**

Answer: A) 60 cm

Question 25

correct option B (3,900 kg) cao — **B1**

Answer: B) 3,900 kg

Question 26

correct option E (475 kg) cao — **B1**

Answer: E) 475 kg

Question 27

correct option D (200 cm) cao — **B1**

Answer: D) 200 cm

Question 28

correct option D (105 cm) cao — **B1**

Answer: D) 105 cm

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Question 29

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

Answer: C) 130 ml

Question 30

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

Answer: C) 170 kg

Question 31

(a) 6.25 mL cao **B1**

(a) Answer: 6.25 mL

(b) 18.75 mL cao **B1**

(b) Answer: 18.75 mL

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