2.79 Percentage of an Amount: Mental Methods: 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 Sienna buys 560 kg of compost. 30% of it is used on the front garden. How many kg is that?

- [ ] A) 169 kg
- [ ] B) 392 kg
- [ ] C) 16,800 kg
- [ ] D) 168 kg
- [ ] E) 1,680 kg

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2 Hamza buys 236 kg of compost. 8% of it is used on the front garden. How many kg is that?

- [ ] A) 217.12 kg
- [ ] B) 18.88 kg
- [ ] C) 19.88 kg
- [ ] D) 1,888 kg
- [ ] E) 29.5 kg

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3 What is 40% of £740?

- [ ] A) £444.00
- [ ] B) £297.00
- [ ] C) £296.00
- [ ] D) £29,600.00
- [ ] E) £18.50

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4 What is 35% of £260?

- [ ] A) £169.00
- [ ] B) £9,100.00
- [ ] C) £295.00
- [ ] D) £92.00
- [ ] E) £91.00

---

5 Chloe buys 260 kg of compost. 75% of it is used on the front garden. How many kg is that?

- [ ] A) 194 kg
- [ ] B) 1,950 kg
- [ ] C) 19,500 kg
- [ ] D) 195 kg
- [ ] E) 65 kg

---

6 What is 5% of £20?

- [ ] A) £4.00
- [ ] B) £25.00
- [ ] C) £1.00
- [ ] D) £100.00
- [ ] E) £19.00

---

7 Ffion buys 680 kg of compost. 25% of it is used on the front garden. How many kg is that?

- [ ] A) 171 kg
- [ ] B) 510 kg
- [ ] C) 17,000 kg
- [ ] D) 170 kg
- [ ] E) 27.2 kg

---

8 There are 700 pupils in a school. 45% of them walk to school. How many pupils walk?

- [ ] A) 314
- [ ] B) 315
- [ ] C) 385
- [ ] D) 316
- [ ] E) 31,500

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9 Kwame buys 480 kg of compost. 10% of it is used on the front garden. How many kg is that?

- [ ] A) 4,800 kg
- [ ] B) 49 kg
- [ ] C) 432 kg
- [ ] D) 47 kg
- [ ] E) 48 kg

---

10 What is 1% of £180?

- [ ] A) £1.80
- [ ] B) £180.00
- [ ] C) £2.80
- [ ] D) £0.80
- [ ] E) £178.20

---

11 What is 60% of £120?

- [ ] A) £48.00
- [ ] B) £7,200.00
- [ ] C) £71.00
- [ ] D) £72.00
- [ ] E) £2.00

---

12 What is 10% of £530?

- [ ] A) £530.00
- [ ] B) £5,300.00
- [ ] C) £53.00
- [ ] D) £54.00
- [ ] E) £477.00

---

13 Kofi buys 680 kg of compost. 35% of it is used on the front garden. How many kg is that?

- [ ] A) 238 kg
- [ ] B) 442 kg
- [ ] C) 237 kg
- [ ] D) 2,380 kg
- [ ] E) 23,800 kg

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14 What is 20% of £800?

- [ ] A) £820
- [ ] B) £160
- [ ] C) £40
- [ ] D) £159
- [ ] E) £16,000

---

15 What is 30% of £580?

- [ ] A) £174.00
- [ ] B) £17,400.00
- [ ] C) £406.00
- [ ] D) £175.00
- [ ] E) £610.00

---

16 What is 15% of £820?

- [ ] A) £12,300.00
- [ ] B) £123.00
- [ ] C) £697.00
- [ ] D) £122.00
- [ ] E) £1,230.00

---

17 Tom buys 580 kg of compost. 50% of it is used on the front garden. How many kg is that?

- [ ] A) 29,000 kg
- [ ] B) 291 kg
- [ ] C) 290 kg
- [ ] D) 2,900 kg
- [ ] E) 11.6 kg

---

18 What is 30% of £60?

- [ ] A) £180.00
- [ ] B) £1,800.00
- [ ] C) £2.00
- [ ] D) £17.00
- [ ] E) £18.00

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19 What is 5% of £60?

- ☐ A) £57.00
- ☐ B) £12.00
- ☐ C) £4.00
- ☐ D) £300.00
- ☐ E) £3.00

---

20 State 1% of 0.8 kg, giving your answer in grams.

(1)

---

21 There are 100 pupils in a school. 30% of them walk to school. How many pupils walk?

- ☐ A) 30
- ☐ B) 70
- ☐ C) 130
- ☐ D) 3,000
- ☐ E) 300

---

22 There are 800 pupils in a school. 25% of them walk to school. How many pupils walk?

- ☐ A) 32
- ☐ B) 201
- ☐ C) 20,000
- ☐ D) 200
- ☐ E) 2,000

---

23 There are 140 pupils in a school. 90% of them walk to school. How many pupils walk?

- ☐ A) 127
- ☐ B) 126
- ☐ C) 1,260
- ☐ D) 12,600
- ☐ E) 14

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24 Lily buys 800 kg of compost. 50% of it is used on the front garden. How many kg is that?

- [ ] A) 16 kg
- [ ] B) 850 kg
- [ ] C) 400 kg
- [ ] D) 40,000 kg
- [ ] E) 4,000 kg

---

25 Anya buys 460 kg of compost. 45% of it is used on the front garden. How many kg is that?

- [ ] A) 20,700 kg
- [ ] B) 505 kg
- [ ] C) 2,070 kg
- [ ] D) 253 kg
- [ ] E) 207 kg

---

26 There are 240 pupils in a school. 20% of them walk to school. How many pupils walk?

- [ ] A) 4,800
- [ ] B) 12
- [ ] C) 47
- [ ] D) 48
- [ ] E) 49

---

27 There are 80 pupils in a school. 60% of them walk to school. How many pupils walk?

- [ ] A) 480
- [ ] B) 48
- [ ] C) 140
- [ ] D) 32
- [ ] E) 4,800

---

28 Noah buys 300 kg of compost. 20% of it is used on the front garden. How many kg is that?

- [ ] A) 61 kg
- [ ] B) 320 kg
- [ ] C) 6,000 kg
- [ ] D) 15 kg
- [ ] E) 60 kg

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29 There are 220 pupils in a school. 20% of them walk to school. How many pupils walk?

- [ ] A) 43
- [ ] B) 176
- [ ] C) 11
- [ ] D) 44
- [ ] E) 4,400

---

30 Leo buys 200 kg of compost. 60% of it is used on the front garden. How many kg is that?

- [ ] A) 120 kg
- [ ] B) 121 kg
- [ ] C) 119 kg
- [ ] D) 80 kg
- [ ] E) 12,000 kg

---

31 There are 500 pupils in a school. 15% of them walk to school. How many pupils walk?

- [ ] A) 7,500
- [ ] B) 76
- [ ] C) 75
- [ ] D) 750
- [ ] E) 425

---

32 Rhys buys 380 kg of compost. 5% of it is used on the front garden. How many kg is that?

- [ ] A) 385 kg
- [ ] B) 361 kg
- [ ] C) 19 kg
- [ ] D) 1,900 kg
- [ ] E) 76 kg

---

33 Lily buys 800 kg of compost. 1% of it is used on the front garden. How many kg is that?

- [ ] A) 792 kg
- [ ] B) 7 kg
- [ ] C) 80 kg
- [ ] D) 800 kg
- [ ] E) 8 kg

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34 There are 260 pupils in a school. 5% of them walk to school. How many pupils walk?

- ☐ A) 130
- ☐ B) 13
- ☐ C) 247
- ☐ D) 52
- ☐ E) 1,300

---

35 There are 760 pupils in a school. 10% of them walk to school. How many pupils walk?

- ☐ A) 76
- ☐ B) 684
- ☐ C) 770
- ☐ D) 77
- ☐ E) 7,600

---

36 What is 10% of £860?

- ☐ A) £860.00
- ☐ B) £8,600.00
- ☐ C) £774.00
- ☐ D) £86.00
- ☐ E) £87.00

---

37 There are 680 pupils in a school. 75% of them walk to school. How many pupils walk?

- ☐ A) 170
- ☐ B) 5,100
- ☐ C) 51,000
- ☐ D) 509
- ☐ E) 510

---

38 What is 10% of 1,350?

(1)

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39 What is 35% of £560?

- [ ] A) £196.00
- [ ] B) £19,600.00
- [ ] C) £197.00
- [ ] D) £16.00
- [ ] E) £195.00

---

40 Esme buys 980 kg of compost. 25% of it is used on the front garden. How many kg is that?

- [ ] A) 24,500 kg
- [ ] B) 245 kg
- [ ] C) 244 kg
- [ ] D) 39.2 kg
- [ ] E) 246 kg

---

41 What is 25% of £720?

- [ ] A) £540.00
- [ ] B) £18,000.00
- [ ] C) £28.80
- [ ] D) £745.00
- [ ] E) £180.00

---

42 There are 960 pupils in a school. 5% of them walk to school. How many pupils walk?

- [ ] A) 4,800
- [ ] B) 47
- [ ] C) 192
- [ ] D) 48
- [ ] E) 480

---

43 Mei buys 20 kg of compost. 10% of it is used on the front garden. How many kg is that?

- [ ] A) 18 kg
- [ ] B) 2 kg
- [ ] C) 200 kg
- [ ] D) 20 kg
- [ ] E) 3 kg

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44 What is 45% of £680?

- [ ] A) £306.00
- [ ] B) £3,060.00
- [ ] C) £30,600.00
- [ ] D) £725.00
- [ ] E) £374.00

---

45 What is 75% of £560?

- [ ] A) £42,000
- [ ] B) £420
- [ ] C) £140
- [ ] D) £421
- [ ] E) £419

---

46 Find 5% of £30.

- [ ] A) £0.30
- [ ] B) £3.00
- [ ] C) £6.00
- [ ] D) £12.00
- [ ] E) £1.50

---

47 There are 480 pupils in a school. 35% of them walk to school. How many pupils walk?

- [ ] A) 167
- [ ] B) 1,680
- [ ] C) 16,800
- [ ] D) 312
- [ ] E) 168

---

48 There are 100 pupils in a school. 20% of them walk to school. How many pupils walk?

- [ ] A) 20
- [ ] B) 120
- [ ] C) 19
- [ ] D) 2,000
- [ ] E) 5

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49 There are 760 pupils in a school. 25% of them walk to school. How many pupils walk?

- [ ] A) 1,900
- [ ] B) 19,000
- [ ] C) 570
- [ ] D) 190
- [ ] E) 191

---

50 Ben buys 820 kg of compost. 20% of it is used on the front garden. How many kg is that?

- [ ] A) 41 kg
- [ ] B) 164 kg
- [ ] C) 840 kg
- [ ] D) 1,640 kg
- [ ] E) 16,400 kg

---

51 There are 880 pupils in a school. 20% of them walk to school. How many pupils walk?

- [ ] A) 17,600
- [ ] B) 900
- [ ] C) 176
- [ ] D) 175
- [ ] E) 44

---

52 There are 280 pupils in a school. 30% of them walk to school. How many pupils walk?

- [ ] A) 8,400
- [ ] B) 83
- [ ] C) 196
- [ ] D) 84
- [ ] E) 840

---

53 Poppy buys 360 kg of compost. 30% of it is used on the front garden. How many kg is that?

- [ ] A) 109 kg
- [ ] B) 12 kg
- [ ] C) 108 kg
- [ ] D) 107 kg
- [ ] E) 10,800 kg

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54 Yusuf buys 40 kg of compost. 90% of it is used on the front garden. How many kg is that?

- [ ] A) 36 kg
- [ ] B) 130 kg
- [ ] C) 4 kg
- [ ] D) 3,600 kg
- [ ] E) 360 kg

---

55 Find 5% of £80.

- [ ] A) £4.00
- [ ] B) £0.40
- [ ] C) £16.00
- [ ] D) £40.00
- [ ] E) £76.00

---

56 There are 540 pupils in a school. 20% of them walk to school. How many pupils walk?

- [ ] A) 27
- [ ] B) 432
- [ ] C) 108
- [ ] D) 109
- [ ] E) 10,800

---

57 There are 60 pupils in a school. 20% of them walk to school. How many pupils walk?

- [ ] A) 12
- [ ] B) 11
- [ ] C) 3
- [ ] D) 120
- [ ] E) 1,200

---

58 A hat priced at £94 is reduced by 10%. Work out the sale price.

- [ ] A) £84.60
- [ ] B) £84.00
- [ ] C) £9.40
- [ ] D) £94.00
- [ ] E) £103.40

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59 Megan buys 228 kg of compost. 12% of it is used on the front garden. How many kg is that?

- ☐ A) 19 kg
- ☐ B) 27.36 kg
- ☐ C) 273.6 kg
- ☐ D) 2,736 kg
- ☐ E) 26.36 kg

---

60 Find 45% of £90.

- ☐ A) £405.00
- ☐ B) £4.05
- ☐ C) £2.00
- ☐ D) £40.50
- ☐ E) £49.50

---

61 There are 690 pupils in a school. 10% of them walk to school. How many pupils walk?

- ☐ A) 69
- ☐ B) 6,900
- ☐ C) 690
- ☐ D) 70
- ☐ E) 621

---

62 A hat priced at £84 is reduced by 20%. Work out the sale price.

- ☐ A) £16.80
- ☐ B) £100.80
- ☐ C) £64.00
- ☐ D) £168.00
- ☐ E) £67.20

---

63 A school has 640 pupils. 5% are left-handed. How many left-handed pupils are there?

(2)

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Mark scheme · 2.79 Percentage of an Amount: Mental Methods: 1-hour Pack

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

Question 1

correct option D (168 kg) cao; 30% of 560 = 560 x 30 / 100 **B1**

Answer: D) 168 kg

Question 2

correct option B (18.88 kg) cao; 8% of 236 = 236 x 8 / 100 **B1**

Answer: B) 18.88 kg

Question 3

correct option C (£296.00) cao; 40% of 740 = 740 x 40 / 100 **B1**

Answer: C) £296.00

Question 4

correct option E (£91.00) cao; 35% of 260 = 260 x 35 / 100 **B1**

Answer: E) £91.00

Question 5

correct option D (195 kg) cao; 75% of 260 = 260 x 75 / 100 **B1**

Answer: D) 195 kg

Question 6

correct option C (£1.00) cao; 5% of 20 = 20 x 5 / 100 **B1**

Answer: C) £1.00

Question 7

correct option D (170 kg) cao; 25% of 680 = 680 x 25 / 100 **B1**

Answer: D) 170 kg

Question 8

correct option B (315) cao; 45% of 700 = 700 x 45 / 100 **B1**

Answer: B) 315

Question 9

correct option E (48 kg) cao; 10% of 480 = 480 x 10 / 100 **B1**

Answer: E) 48 kg

Question 10

correct option A (£1.80) cao; 1% of 180 = 180 x 1 / 100 **B1**

Answer: A) £1.80

Question 11

correct option D (£72.00) cao; 60% of 120 = 120 x 60 / 100 **B1**

Answer: D) £72.00

Question 12

correct option C (£53.00) cao; 10% of 530 = 530 x 10 / 100 **B1**

Answer: C) £53.00

Question 13

correct option A (238 kg) cao; 35% of 680 = 680 x 35 / 100 **B1**

Answer: A) 238 kg

Question 14

correct option B (£160) cao; 20% of 800 = 800 x 20 / 100 **B1**

Answer: B) £160

Question 15

correct option A (£174.00) cao; 30% of 580 = 580 x 30 / 100 **B1**

Answer: A) £174.00

Question 16

correct option B (£123.00) cao; 15% of 820 = 820 x 15 / 100 **B1**

Answer: B) £123.00

Question 17

correct option C (290 kg) cao; 50% of 580 = 580 x 50 / 100 **B1**

Answer: C) 290 kg

Question 18

correct option E (£18.00) cao; 30% of 60 = 60 x 30 / 100 **B1**

Answer: E) £18.00

Question 19

correct option E (£3.00) cao; 5% of 60 = 60 x 5 / 100 **B1**

Answer: E) £3.00

Question 20

8 g cao **B1**

Answer: 8 g

Question 21

correct option A (30) cao; 30% of 100 = 100 x 30 / 100 **B1**

Answer: A) 30

Question 22

correct option D (200) cao; 25% of 800 = 800 x 25 / 100 **B1**

Answer: D) 200

Question 23

correct option B (126) cao; 90% of 140 = 140 x 90 / 100 **B1**

Answer: B) 126

Question 24

correct option C (400 kg) cao; 50% of 800 = 800 x 50 / 100 **B1**

Answer: C) 400 kg

Question 25

correct option E (207 kg) cao; 45% of 460 = 460 x 45 / 100 **B1**

Answer: E) 207 kg

Question 26

correct option D (48) cao; 20% of 240 = 240 x 20 / 100 **B1**

Answer: D) 48

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Question 27

correct option B (48) cao; 60% of 80 = 80 x 60 / 100 **B1**

Answer: B) 48

Question 28

correct option E (60 kg) cao; 20% of 300 = 300 x 20 / 100 **B1**

Answer: E) 60 kg

Question 29

correct option D (44) cao; 20% of 220 = 220 x 20 / 100 **B1**

Answer: D) 44

Question 30

correct option A (120 kg) cao; 60% of 200 = 200 x 60 / 100 **B1**

Answer: A) 120 kg

Question 31

correct option C (75) cao; 15% of 500 = 500 x 15 / 100 **B1**

Answer: C) 75

Question 32

correct option C (19 kg) cao; 5% of 380 = 380 x 5 / 100 **B1**

Answer: C) 19 kg

Question 33

correct option E (8 kg) cao; 1% of 800 = 800 x 1 / 100 **B1**

Answer: E) 8 kg

Question 34

correct option B (13) cao; 5% of 260 = 260 x 5 / 100 **B1**

Answer: B) 13

Question 35

correct option A (76) cao; 10% of 760 = 760 x 10 / 100 **B1**

Answer: A) 76

Question 36

correct option D (£86.00) cao; 10% of 860 = 860 x 10 / 100 **B1**

Answer: D) £86.00

Question 37

correct option E (510) cao; 75% of 680 = 680 x 75 / 100 **B1**

Answer: E) 510

Question 38

135 cao **B1**

Answer: 135

Question 39

correct option A (£196.00) cao; 35% of 560 = 560 x 35 / 100 **B1**

Answer: A) £196.00

Question 40

correct option B (245 kg) cao; 25% of 980 = 980 x 25 / 100 **B1**

Answer: B) 245 kg

Question 41

correct option E (£180.00) cao; 25% of 720 = 720 x 25 / 100 **B1**

Answer: E) £180.00

Question 42

correct option D (48) cao; 5% of 960 = 960 x 5 / 100 **B1**

Answer: D) 48

Question 43

correct option B (2 kg) cao; 10% of 20 = 20 x 10 / 100 **B1**

Answer: B) 2 kg

Question 44

correct option A (£306.00) cao; 45% of 680 = 680 x 45 / 100 **B1**

Answer: A) £306.00

Question 45

correct option B (£420) cao; 75% of 560 = 560 x 75 / 100 **B1**

Answer: B) £420

Question 46

correct option E (£1.50) cao **B1**

Answer: E) £1.50

Question 47

correct option E (168) cao; 35% of 480 = 480 x 35 / 100 **B1**

Answer: E) 168

Question 48

correct option A (20) cao; 20% of 100 = 100 x 20 / 100 **B1**

Answer: A) 20

Question 49

correct option D (190) cao; 25% of 760 = 760 x 25 / 100 **B1**

Answer: D) 190

Question 50

correct option B (164 kg) cao; 20% of 820 = 820 x 20 / 100 **B1**

Answer: B) 164 kg

Question 51

correct option C (176) cao; 20% of 880 = 880 x 20 / 100 **B1**

Answer: C) 176

Question 52

correct option D (84) cao; 30% of 280 = 280 x 30 / 100 **B1**

Answer: D) 84

Question 53

correct option C (108 kg) cao; 30% of 360 = 360 x 30 / 100 **B1**

Answer: C) 108 kg

Question 54

correct option A (36 kg) cao; 90% of 40 = 40 x 90 / 100 **B1**

Answer: A) 36 kg

Question 55

correct option A (£4.00) cao **B1**

Answer: A) £4.00

Question 56

correct option C (108) cao; 20% of 540 = 540 x 20 / 100 **B1**

Answer: C) 108

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Question 57

correct option A (12) cao; 20% of 60 = 60 x 20 / 100 **B1**

Answer: A) 12

Question 58

correct option A (£84.60) cao **B1**

Answer: A) £84.60

Question 59

correct option B (27.36 kg) cao; 12% of 228 = 228 x 12 / 100 **B1**

Answer: B) 27.36 kg

Question 60

correct option D (£40.50) cao **B1**

Answer: D) £40.50

Question 61

correct option A (69) cao; 10% of 690 = 690 x 10 / 100 **B1**

Answer: A) 69

Question 62

correct option E (£67.20) cao **B1**

Answer: E) £67.20

Question 63

use 5% = 1/20 or 640 / 20 seen **M1**

32 cao **A1**

Answer: 32

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