2.79 Percentage of an Amount: Mental Methods: Test Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 45 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 What is 10% of 260?

- ☐ A) 2.6
- ☐ B) 26
- ☐ C) 260
- ☐ D) 52
- ☐ E) 13

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2 What is 17.5% of £356?

- ☐ A) £63.30
- ☐ B) £293.70
- ☐ C) £61.30
- ☐ D) £62.30
- ☐ E) £6,230.00

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3 Dylan buys 216 kg of compost. 35% of it is used on the front garden. How many kg is that?

- ☐ A) 140.4 kg
- ☐ B) 75.6 kg
- ☐ C) 7,560 kg
- ☐ D) 251 kg
- ☐ E) 756 kg

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4 What is 12% of £388?

- ☐ A) £465.60
- ☐ B) £400.00
- ☐ C) £4,656.00
- ☐ D) £46.56
- ☐ E) £341.44

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5 Mei buys 464 kg of compost. 12% of it is used on the front garden. How many kg is that?

- ☐ A) 476 kg
- ☐ B) 55.68 kg
- ☐ C) 56.68 kg
- ☐ D) 5,568 kg
- ☐ E) 408.32 kg

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6 There are 400 pupils in a school. 17.5% of them walk to school. How many pupils walk?

- ☐ A) 71
- ☐ B) 70
- ☐ C) 700
- ☐ D) 330
- ☐ E) 7,000

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7 There are 480 pupils in a school. 20% of them walk to school. How many pupils walk?

- ☐ A) 24
- ☐ B) 97
- ☐ C) 96
- ☐ D) 384
- ☐ E) 9,600

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8 Find 1% of 8,250 m.

(1)

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9 What is 90% of £720?

- [ ] A) £64,800.00
- [ ] B) £6,480.00
- [ ] C) £648.00
- [ ] D) £647.00
- [ ] E) £8.00

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10 Arjun buys 440 kg of compost. 90% of it is used on the front garden. How many kg is that?

- [ ] A) 3,960 kg
- [ ] B) 530 kg
- [ ] C) 39,600 kg
- [ ] D) 396 kg
- [ ] E) 44 kg

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11 Oliver buys 530 kg of compost. 50% of it is used on the front garden. How many kg is that?

- [ ] A) 2,650 kg
- [ ] B) 580 kg
- [ ] C) 10.6 kg
- [ ] D) 26,500 kg
- [ ] E) 265 kg

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12 Chloe buys 170 kg of compost. 20% of it is used on the front garden. How many kg is that?

- [ ] A) 34 kg
- [ ] B) 190 kg
- [ ] C) 3,400 kg
- [ ] D) 8.5 kg
- [ ] E) 136 kg

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13 What is 5% of £310?

- [ ] A) £294.50
- [ ] B) £15.50
- [ ] C) £62.00
- [ ] D) £1,550.00
- [ ] E) £16.50

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14 What is 5% of £660?

- [ ] A) £132.00
- [ ] B) £3,300.00
- [ ] C) £34.00
- [ ] D) £330.00
- [ ] E) £33.00

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15 There are 650 pupils in a school. 20% of them walk to school. How many pupils walk?

- [ ] A) 520
- [ ] B) 1,300
- [ ] C) 129
- [ ] D) 130
- [ ] E) 13,000

---

16 What is 90% of £260?

- [ ] A) £26.00
- [ ] B) £23,400.00
- [ ] C) £234.00
- [ ] D) £235.00
- [ ] E) £350.00

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17 Lily buys 920 kg of compost. 90% of it is used on the front garden. How many kg is that?

- [ ] A) 828 kg
- [ ] B) 829 kg
- [ ] C) 92 kg
- [ ] D) 82,800 kg
- [ ] E) 827 kg

---

18 What is 35% of £420?

- [ ] A) £273.00
- [ ] B) £147.00
- [ ] C) £14,700.00
- [ ] D) £12.00
- [ ] E) £148.00

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19 Chloe buys 910 kg of compost. 1% of it is used on the front garden. How many kg is that?

- [ ] A) 910 kg
- [ ] B) 911 kg
- [ ] C) 8.1 kg
- [ ] D) 9.1 kg
- [ ] E) 900.9 kg

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20 Sienna buys 290 kg of compost. 1% of it is used on the front garden. How many kg is that?

- [ ] A) 1.9 kg
- [ ] B) 291 kg
- [ ] C) 2.9 kg
- [ ] D) 290 kg
- [ ] E) 287.1 kg

---

21 What is 25% of £280?

- [ ] A) £210.00
- [ ] B) £11.20
- [ ] C) £70.00
- [ ] D) £71.00
- [ ] E) £7,000.00

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22 What is 5% of £600?

- [ ] A) £31
- [ ] B) £120
- [ ] C) £30
- [ ] D) £3,000
- [ ] E) £300

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23 There are 280 pupils in a school. 75% of them walk to school. How many pupils walk?

- [ ] A) 21,000
- [ ] B) 209
- [ ] C) 70
- [ ] D) 211
- [ ] E) 210

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24 What is 30% of £780?

- ☐ A) £235.00
- ☐ B) £234.00
- ☐ C) £23,400.00
- ☐ D) £233.00
- ☐ E) £26.00

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25 Maya buys 410 kg of compost. 5% of it is used on the front garden. How many kg is that?

- ☐ A) 82 kg
- ☐ B) 415 kg
- ☐ C) 2,050 kg
- ☐ D) 20.5 kg
- ☐ E) 19.5 kg

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26 Write down 1% of 3,500.

(1)

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27 A hat priced at £86 is reduced by 25%. Work out the sale price.

- ☐ A) £21.50
- ☐ B) £64.50
- ☐ C) £61.00
- ☐ D) £107.50
- ☐ E) £215.00

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28 Find 25% of £10.

- ☐ A) £2.50
- ☐ B) £7.50
- ☐ C) £0.25
- ☐ D) £0.40
- ☐ E) £25.00

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29 There are 150 pupils in a school. 50% of them walk to school. How many pupils walk?

- [ ] A) 75
- [ ] B) 76
- [ ] C) 750
- [ ] D) 3
- [ ] E) 7,500

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30 There are 520 pupils in a school. 5% of them walk to school. How many pupils walk?

- [ ] A) 25
- [ ] B) 494
- [ ] C) 26
- [ ] D) 2,600
- [ ] E) 104

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31 What is 5% of £950?

- [ ] A) £902.50
- [ ] B) £47.50
- [ ] C) £46.50
- [ ] D) £190.00
- [ ] E) £4,750.00

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32 What is 1% of £550?

- [ ] A) £6.50
- [ ] B) £550.00
- [ ] C) £544.50
- [ ] D) £5.50
- [ ] E) £4.50

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33 What is 10% of £820?

- [ ] A) £830.00
- [ ] B) £738.00
- [ ] C) £83.00
- [ ] D) £8,200.00
- [ ] E) £82.00

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34 There are 740 pupils in a school. 45% of them walk to school. How many pupils walk?

- [ ] A) 333
- [ ] B) 407
- [ ] C) 3,330
- [ ] D) 33,300
- [ ] E) 334

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35 There are 320 pupils in a school. 10% of them walk to school. How many pupils walk?

- [ ] A) 3,200
- [ ] B) 288
- [ ] C) 31
- [ ] D) 320
- [ ] E) 32

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36 Tariq buys 750 kg of compost. 20% of it is used on the front garden. How many kg is that?

- [ ] A) 151 kg
- [ ] B) 150 kg
- [ ] C) 149 kg
- [ ] D) 15,000 kg
- [ ] E) 37.5 kg

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37 Oliver buys 464 kg of compost. 7.5% of it is used on the front garden. How many kg is that?

- [ ] A) 34.8 kg
- [ ] B) 35.8 kg
- [ ] C) 3,480 kg
- [ ] D) 348 kg
- [ ] E) 429.2 kg

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38 What is 65% of £192?

- [ ] A) £123.80
- [ ] B) £124.80
- [ ] C) £257.00
- [ ] D) £12,480.00
- [ ] E) £67.20

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39 Grace buys 228 kg of compost. 45% of it is used on the front garden. How many kg is that?

- ☐ A) 10,260 kg
- ☐ B) 102.6 kg
- ☐ C) 103.6 kg
- ☐ D) 125.4 kg
- ☐ E) 101.6 kg

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40 Anya buys 52 kg of compost. 45% of it is used on the front garden. How many kg is that?

- ☐ A) 24.4 kg
- ☐ B) 2,340 kg
- ☐ C) 23.4 kg
- ☐ D) 234 kg
- ☐ E) 28.6 kg

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41 A 2.75 litre bottle loses 1.5% of its volume through a small leak. Work out how many millilitres of liquid are lost. Give your answer to two decimal places where appropriate.

(3)

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42 Work out 15% of £240.

(2)

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Mark scheme · 2.79 Percentage of an Amount: Mental Methods: Test Pack

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

Question 1

correct option B (26) cao **B1**

Answer: B) 26 (10% of 260 is 260 ÷ 10 = 26).

Question 2

correct option D (£62.30) cao; 17.5% of 356 = 356 x 17.5 / 100 **B1**

Answer: D) £62.30

Question 3

correct option B (75.6 kg) cao; 35% of 216 = 216 x 35 / 100 **B1**

Answer: B) 75.6 kg

Question 4

correct option D (£46.56) cao; 12% of 388 = 388 x 12 / 100 **B1**

Answer: D) £46.56

Question 5

correct option B (55.68 kg) cao; 12% of 464 = 464 x 12 / 100 **B1**

Answer: B) 55.68 kg

Question 6

correct option B (70) cao; 17.5% of 400 = 400 x 17.5 / 100 **B1**

Answer: B) 70

Question 7

correct option C (96) cao; 20% of 480 = 480 x 20 / 100 **B1**

Answer: C) 96

Question 8

82.5 m cao **B1**

Answer: 82.5 m

Question 9

correct option C (£648.00) cao; 90% of 720 = 720 x 90 / 100 **B1**

Answer: C) £648.00

Question 10

correct option D (396 kg) cao; 90% of 440 = 440 x 90 / 100 **B1**

Answer: D) 396 kg

Question 11

correct option E (265 kg) cao; 50% of 530 = 530 x 50 / 100 **B1**

Answer: E) 265 kg

Question 12

correct option A (34 kg) cao; 20% of 170 = 170 x 20 / 100 **B1**

Answer: A) 34 kg

Question 13

correct option B (£15.50) cao; 5% of 310 = 310 x 5 / 100 **B1**

Answer: B) £15.50

Question 14

correct option E (£33.00) cao; 5% of 660 = 660 x 5 / 100 **B1**

Answer: E) £33.00

Question 15

correct option D (130) cao; 20% of 650 = 650 x 20 / 100 **B1**

Answer: D) 130

Question 16

correct option C (£234.00) cao; 90% of 260 = 260 x 90 / 100 **B1**

Answer: C) £234.00

Question 17

correct option A (828 kg) cao; 90% of 920 = 920 x 90 / 100 **B1**

Answer: A) 828 kg

Question 18

correct option B (£147.00) cao; 35% of 420 = 420 x 35 / 100 **B1**

Answer: B) £147.00

Question 19

correct option D (9.1 kg) cao; 1% of 910 = 910 x 1 / 100 **B1**

Answer: D) 9.1 kg

Question 20

correct option C (2.9 kg) cao; 1% of 290 = 290 x 1 / 100 **B1**

Answer: C) 2.9 kg

Question 21

correct option C (£70.00) cao; 25% of 280 = 280 x 25 / 100 **B1**

Answer: C) £70.00

Question 22

correct option C (£30) cao; 5% of 600 = 600 x 5 / 100 **B1**

Answer: C) £30

Question 23

correct option E (210) cao; 75% of 280 = 280 x 75 / 100 **B1**

Answer: E) 210

Question 24

correct option B (£234.00) cao; 30% of 780 = 780 x 30 / 100 **B1**

Answer: B) £234.00

Question 25

correct option D (20.5 kg) cao; 5% of 410 = 410 x 5 / 100 **B1**

Answer: D) 20.5 kg

Question 26

35 cao **B1**

Answer: 35

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Question 27

correct option B (£64.50) cao **B1**

Answer: B) £64.50

Question 28

correct option A (£2.50) cao **B1**

Answer: A) £2.50

Question 29

correct option A (75) cao; 50% of 150 = 150 x 50 / 100 **B1**

Answer: A) 75

Question 30

correct option C (26) cao; 5% of 520 = 520 x 5 / 100 **B1**

Answer: C) 26

Question 31

correct option B (£47.50) cao; 5% of 950 = 950 x 5 / 100 **B1**

Answer: B) £47.50

Question 32

correct option D (£5.50) cao; 1% of 550 = 550 x 1 / 100 **B1**

Answer: D) £5.50

Question 33

correct option E (£82.00) cao; 10% of 820 = 820 x 10 / 100 **B1**

Answer: E) £82.00

Question 34

correct option A (333) cao; 45% of 740 = 740 x 45 / 100 **B1**

Answer: A) 333

Question 35

correct option E (32) cao; 10% of 320 = 320 x 10 / 100 **B1**

Answer: E) 32

Question 36

correct option B (150 kg) cao; 20% of 750 = 750 x 20 / 100 **B1**

Answer: B) 150 kg

Question 37

correct option A (34.8 kg) cao; 7.5% of 464 = 464 x 7.5 / 100 **B1**

Answer: A) 34.8 kg

Question 38

correct option B (£124.80) cao; 65% of 192 = 192 x 65 / 100 **B1**

Answer: B) £124.80

Question 39

correct option B (102.6 kg) cao; 45% of 228 = 228 x 45 / 100 **B1**

Answer: B) 102.6 kg

Question 40

correct option C (23.4 kg) cao; 45% of 52 = 52 x 45 / 100 **B1**

Answer: C) 23.4 kg

Question 41

find 1% of 2.75 L (=0.0275 L or 27.5 ml) seen **M1**

find 0.5% (half of 1%) or otherwise 0.015 x 2.75 seen (=13.75 ml) **M1**

41.25 ml cao **A1**

Answer: 41.25 ml

Question 42

finding 10% (= £24) and 5% (= £12) or equivalent method **M1**

£36 cao **A1**

Answer: £36

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