2.79 Percentage of an Amount: Mental Methods: 30-minute Pack

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

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 What is 30% of £960?

- [ ] A) £288.00
- [ ] B) £32.00
- [ ] C) £287.00
- [ ] D) £28,800.00
- [ ] E) £990.00

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2 There are 880 pupils in a school. 25% of them walk to school. How many pupils walk?

- [ ] A) 905
- [ ] B) 22,000
- [ ] C) 221
- [ ] D) 660
- [ ] E) 220

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3 Lily buys 480 kg of compost. 15% of it is used on the front garden. How many kg is that?

- [ ] A) 71 kg
- [ ] B) 7,200 kg
- [ ] C) 72 kg
- [ ] D) 73 kg
- [ ] E) 32 kg

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4 What is 90% of £820?

- [ ] A) £738.00
- [ ] B) £739.00
- [ ] C) £73,800.00
- [ ] D) £82.00
- [ ] E) £737.00

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5 What is 50% of £30?

- [ ] A) £0.60
- [ ] B) £80.00
- [ ] C) £1,500.00
- [ ] D) £15.00
- [ ] E) £14.00

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6 Ethan buys 420 kg of compost. 10% of it is used on the front garden. How many kg is that?

- [ ] A) 42 kg
- [ ] B) 430 kg
- [ ] C) 378 kg
- [ ] D) 43 kg
- [ ] E) 4,200 kg

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7 Tom buys 150 kg of compost. 20% of it is used on the front garden. How many kg is that?

- [ ] A) 29 kg
- [ ] B) 7.5 kg
- [ ] C) 170 kg
- [ ] D) 30 kg
- [ ] E) 3,000 kg

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8 Sana buys 720 kg of compost. 10% of it is used on the front garden. How many kg is that?

- [ ] A) 730 kg
- [ ] B) 71 kg
- [ ] C) 648 kg
- [ ] D) 7,200 kg
- [ ] E) 72 kg

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9 What is 25% of £370?

- [ ] A) £9,250.00
- [ ] B) £91.50
- [ ] C) £92.50
- [ ] D) £14.80
- [ ] E) £925.00

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10 What is 3% of £240?

- [ ] A) £80.00
- [ ] B) £7.20
- [ ] C) £720.00
- [ ] D) £6.20
- [ ] E) £8.20

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11 Noah buys 260 kg of compost. 10% of it is used on the front garden. How many kg is that?

- [ ] A) 27 kg
- [ ] B) 234 kg
- [ ] C) 25 kg
- [ ] D) 26 kg
- [ ] E) 2,600 kg

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12 Amara buys 150 kg of compost. 1% of it is used on the front garden. How many kg is that?

- [ ] A) 1.5 kg
- [ ] B) 148.5 kg
- [ ] C) 151 kg
- [ ] D) 2.5 kg
- [ ] E) 150 kg

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

- [ ] A) 3,600
- [ ] B) 1
- [ ] C) 360
- [ ] D) 24
- [ ] E) 36

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14 What is 2.5% of £88?

- [ ] A) £35.20
- [ ] B) £85.80
- [ ] C) £2.20
- [ ] D) £220.00
- [ ] E) £90.50

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15 There are 340 pupils in a school. 60% of them walk to school. How many pupils walk?

- [ ] A) 2,040
- [ ] B) 136
- [ ] C) 20,400
- [ ] D) 203
- [ ] E) 204

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16 There are 630 pupils in a school. 50% of them walk to school. How many pupils walk?

- [ ] A) 315
- [ ] B) 316
- [ ] C) 680
- [ ] D) 31,500
- [ ] E) 3,150

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17 There are 160 pupils in a school. 15% of them walk to school. How many pupils walk?

- [ ] A) 23
- [ ] B) 24
- [ ] C) 2,400
- [ ] D) 175
- [ ] E) 136

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18 What is 15% of £780?

- [ ] A) £11,700.00
- [ ] B) £1,170.00
- [ ] C) £52.00
- [ ] D) £117.00
- [ ] E) £663.00

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19 Imogen buys 250 kg of compost. 10% of it is used on the front garden. How many kg is that?

- [ ] A) 2,500 kg
- [ ] B) 225 kg
- [ ] C) 25 kg
- [ ] D) 260 kg
- [ ] E) 24 kg

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20 There are 328 pupils in a school. 12.5% of them walk to school. How many pupils walk?

- [ ] A) 4,100
- [ ] B) 41
- [ ] C) 42
- [ ] D) 410
- [ ] E) 287

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21 Aisha buys 120 kg of compost. 5% of it is used on the front garden. How many kg is that?

- [ ] A) 6 kg
- [ ] B) 24 kg
- [ ] C) 7 kg
- [ ] D) 600 kg
- [ ] E) 114 kg

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22 Grace buys 870 kg of compost. 20% of it is used on the front garden. How many kg is that?

- [ ] A) 43.5 kg
- [ ] B) 1,740 kg
- [ ] C) 173 kg
- [ ] D) 17,400 kg
- [ ] E) 174 kg

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23 Niamh buys 248 kg of compost. 35% of it is used on the front garden. How many kg is that?

- [ ] A) 868 kg
- [ ] B) 161.2 kg
- [ ] C) 8,680 kg
- [ ] D) 86.8 kg
- [ ] E) 283 kg

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24 What is 10% of £730?

- [ ] A) £73.00
- [ ] B) £7,300.00
- [ ] C) £730.00
- [ ] D) £74.00
- [ ] E) £657.00

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25 There are 780 pupils in a school. 75% of them walk to school. How many pupils walk?

- [ ] A) 195
- [ ] B) 586
- [ ] C) 585
- [ ] D) 5,850
- [ ] E) 58,500

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26 What is 50% of £550?

- [ ] A) £600.00
- [ ] B) £275.00
- [ ] C) £27,500.00
- [ ] D) £274.00
- [ ] E) £11.00

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27 What is 30% of £680?

- [ ] A) £2,040.00
- [ ] B) £20,400.00
- [ ] C) £710.00
- [ ] D) £476.00
- [ ] E) £204.00

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28 What is 12.5% of £444?

- [ ] A) £55.50
- [ ] B) £54.50
- [ ] C) £5,550.00
- [ ] D) £388.50
- [ ] E) £35.52

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29 Arjun buys 620 kg of compost. 75% of it is used on the front garden. How many kg is that?

- ☐ A) 466 kg
- ☐ B) 695 kg
- ☐ C) 465 kg
- ☐ D) 46,500 kg
- ☐ E) 155 kg

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30 What is 10% of £3.70?

(1)

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31 A recipe needs 200 g sugar. You use 10% extra. How much sugar do you use in total?

(2)

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Mark scheme · 2.79 Percentage of an Amount: Mental Methods: 30-minute Pack

Question 1

correct option A (£288.00) cao; 30% of 960 = 960 x 30 / 100 **B1**

Answer: A) £288.00

Question 2

correct option E (220) cao; 25% of 880 = 880 x 25 / 100 **B1**

Answer: E) 220

Question 3

correct option C (72 kg) cao; 15% of 480 = 480 x 15 / 100 **B1**

Answer: C) 72 kg

Question 4

correct option A (£738.00) cao; 90% of 820 = 820 x 90 / 100 **B1**

Answer: A) £738.00

Question 5

correct option D (£15.00) cao; 50% of 30 = 30 x 50 / 100 **B1**

Answer: D) £15.00

Question 6

correct option A (42 kg) cao; 10% of 420 = 420 x 10 / 100 **B1**

Answer: A) 42 kg

Question 7

correct option D (30 kg) cao; 20% of 150 = 150 x 20 / 100 **B1**

Answer: D) 30 kg

Question 8

correct option E (72 kg) cao; 10% of 720 = 720 x 10 / 100 **B1**

Answer: E) 72 kg

Question 9

correct option C (£92.50) cao; 25% of 370 = 370 x 25 / 100 **B1**

Answer: C) £92.50

Question 10

correct option B (£7.20) cao; 3% of 240 = 240 x 3 / 100 **B1**

Answer: B) £7.20

Question 11

correct option D (26 kg) cao; 10% of 260 = 260 x 10 / 100 **B1**

Answer: D) 26 kg

Question 12

correct option A (1.5 kg) cao; 1% of 150 = 150 x 1 / 100 **B1**

Answer: A) 1.5 kg

Question 13

correct option E (36) cao; 60% of 60 = 60 x 60 / 100 **B1**

Answer: E) 36

Question 14

correct option C (£2.20) cao; 2.5% of 88 = 88 x 2.5 / 100 **B1**

Answer: C) £2.20

Question 15

correct option E (204) cao; 60% of 340 = 340 x 60 / 100 **B1**

Answer: E) 204

Question 16

correct option A (315) cao; 50% of 630 = 630 x 50 / 100 **B1**

Answer: A) 315

Question 17

correct option B (24) cao; 15% of 160 = 160 x 15 / 100 **B1**

Answer: B) 24

Question 18

correct option D (£117.00) cao; 15% of 780 = 780 x 15 / 100 **B1**

Answer: D) £117.00

Question 19

correct option C (25 kg) cao; 10% of 250 = 250 x 10 / 100 **B1**

Answer: C) 25 kg

Question 20

correct option B (41) cao; 12.5% of 328 = 328 x 12.5 / 100 **B1**

Answer: B) 41

Question 21

correct option A (6 kg) cao; 5% of 120 = 120 x 5 / 100 **B1**

Answer: A) 6 kg

Question 22

correct option E (174 kg) cao; 20% of 870 = 870 x 20 / 100 **B1**

Answer: E) 174 kg

Question 23

correct option D (86.8 kg) cao; 35% of 248 = 248 x 35 / 100 **B1**

Answer: D) 86.8 kg

Question 24

correct option A (£73.00) cao; 10% of 730 = 730 x 10 / 100 **B1**

Answer: A) £73.00

Question 25

correct option C (585) cao; 75% of 780 = 780 x 75 / 100 **B1**

Answer: C) 585

Question 26

correct option B (£275.00) cao; 50% of 550 = 550 x 50 / 100 **B1**

Answer: B) £275.00

Question 27

correct option E (£204.00) cao; 30% of 680 = 680 x 30 / 100 **B1**

Answer: E) £204.00

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Question 28

correct option A (£55.50) cao; 12.5% of 444 = 444 x 12.5 / 100 **B1**

Answer: A) £55.50

Question 29

correct option C (465 kg) cao; 75% of 620 = 620 x 75 / 100 **B1**

Answer: C) 465 kg

Question 30

£0.37 cao **B1**

Answer: £0.37

Question 31

find 10% of 200 (=20) or equivalent **M1**

220 g cao **A1**

Answer: 220 g

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