



EP.M102 Percentage of an Amount: Mental Methods

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 55 minutes

Total Marks

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

(Total for Question 1 is 1 mark)

2 Find 5% of £30.

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

(Total for Question 2 is 1 mark)

3 Write down 1% of 3,500.

(Total for Question 3 is 1 mark)

4 State 15% of 200.

(Total for Question 4 is 1 mark)

5 Work out 15% of £240.

(Total for Question 5 is 2 marks)

6 Work out 25% of 3,120.

(Total for Question 6 is 2 marks)

7 Calculate 1% of 450 ml.

(Total for Question 7 is 1 mark)

8 A hat priced at £48 is reduced by 20%. Work out the sale price.

(Total for Question 8 is 2 marks)

9 What is 5% of 90?

(Total for Question 9 is 1 mark)

10 Work out 12% of 250.

(Total for Question 10 is 2 marks)

11 State 1% of £7,250.

(Total for Question 11 is 1 mark)

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

(Total for Question 12 is 2 marks)

13 Find 1% of 8,250 m.

(Total for Question 13 is 1 mark)

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

(Total for Question 14 is 2 marks)

15 What is 10% of £3.70?

(Total for Question 15 is 1 mark)

16 A jumper costs £36. It is increased by 15%. Work out the new price.

(Total for Question 16 is 2 marks)

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

(Total for Question 17 is 1 mark)

18 A phone costs £240. You pay a 5% deposit. How much is the deposit?

(Total for Question 18 is 2 marks)

19 What is 10% of 1,350?

(Total for Question 19 is 1 mark)

20 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.

(Total for Question 20 is 3 marks)

Mark scheme · EP.M102 Percentage of an Amount: Mental Methods

Question 1

- **B1** correct option B (26) cao
- **Answer: B) 26** (10% of 260 is $260 \div 10 = 26$).

Question 2

- **B1** correct option E (£1.50) cao
- **Answer: E) £1.50**

Question 3

- **B1** 35 cao
- **Answer: 35**

Question 4

- **B1** 30 cao
- **Answer: 30**

Question 5

- **M1** finding 10% (= £24) and 5% (= £12) or equivalent method
- **A1** £36 cao
- **Answer: £36**

Question 6

- **M1** divide by 4 or recognise 25% as one quarter ($3,120 \div 4$ seen)
- **A1** 780 cao
- **Answer: 780**

Question 7

- **B1** 4.5 ml cao
- **Answer: 4.5 ml**

Question 8

- **M1** find 20% (= £9.60) or equivalent method
- **A1** £38.40 cao
- **Answer: £38.40**

Question 9

- **B1** 4.5 cao
- **Answer: 4.5**

Question 10

- **M1** use 10% (=25) and 1% (=2.5) or equivalent method
- **A1** 30 cao
- **Answer: 30**

Question 11

- **B1** £72.50 cao
- **Answer: £72.50**

Question 12

- **M1** find 10% of 200 (=20) or equivalent
- **A1** 220 g cao
- **Answer: 220 g**

Question 13

- **B1** 82.5 m cao
- **Answer: 82.5 m**

Question 14

- **M1** use $5\% = 1/20$ or $640 / 20$ seen
- **A1** 32 cao
- **Answer: 32**

Question 15

- **B1** £0.37 cao
- **Answer: £0.37**

Question 16

- **M1** find 10% ($=3.60$) and 5% ($=1.80$) or equivalent method
- **A1** £41.40 cao
- **Answer: £41.40**

Question 17

- **B1** 8 g cao
- **Answer: 8 g**

Question 18

- **M1** find 5% of 240 ($=12$) or equivalent
- **A1** £12.00 cao
- **Answer: £12.00**

Question 19

- **B1** 135 cao
- **Answer: 135**

Question 20

- **M1** find 1% of 2.75 L ($=0.0275$ L or 27.5 ml) seen
- **M1** find 0.5% (half of 1%) or otherwise 0.015×2.75 seen ($=13.75$ ml)
- **A1** 41.25 ml cao
- **Answer: 41.25 ml**