2.31 Fractions, Decimals and Percentages Depth: 10-minute Pack

Total Marks

GL ASSESSMENT EP.M30 · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

Fractions, Decimals and Percentages Depth

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A deeper 11+ fractions, decimals and percentages paper for scholarship-level preparation, complementing EP.M3 (Fractions), EP.M4 (Decimals), EP.M5 (Percentages) and EP.M24 (Fractions, Decimals and Percentages Mixed Drill). It covers equivalence, ordering across all three forms, all four operations with fractions (including mixed numbers), conversions between forms, finding fractions and percentages of amounts, and worded and multi-step problems. Questions are ramped from straightforward warm-up items to demanding multi-step and reverse-reasoning problems designed to stretch the strongest candidates.

1 Calculate 5/6 divided by 2/3, giving your answer as a mixed number in its simplest form.

(2)

2 Find 3/8 of 64.

- ☐ A) 21
- ☐ B) 8
- ☐ C) 40
- ☐ D) 27
- ☐ E) 24

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3 Find 5/9 of 108.

(2)

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4 A jacket costs £85. In a sale, the price is reduced by 20%. Work out the sale price.

(2)

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5 A number is increased by 25% to give 60. What was the original number?

- ☐ A) 45
- ☐ B) 48
- ☐ C) 50
- ☐ D) 75
- ☐ E) 44

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6 There are 32 pupils in a class. 3/4 of the pupils walk to school. Of the pupils who do not walk, 5/8 travel by car and the rest travel by bus. How many pupils travel by bus?

(3)

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Mark scheme · 2.31 Fractions, Decimals and Percentages Depth: 10-minute Pack

Question 1

correctly inverts and multiplies, e.g. 5/6 x 3/2	**M1**
1 1/4 cao (oe 5/4)	**A1**

Answer: 1 1/4

Question 2

E (24) cao	**B1**

Answer: E) 24

Question 3

108 / 9 = 12	**M1**
60 cao	**A1**

Answer: 60

Question 4

finds 20% of £85 = £17, oe (e.g. uses 0.8 x 85)	**M1**
£68 cao	**A1**

Answer: £68

Question 5

B (48) cao	**B1**

Answer: B) 48

Question 6

3/4 of 32 = 24 walk, so 8 do not walk	**M1**
5/8 of 8 = 5 travel by car	**M1**
3 cao	**A1**

Answer: 3 pupils

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