2.68-5 Fractions and Decimals: Practice Set 5: 10-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

Fractions and Decimals: Practice Set 5

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A fifth original 11+ practice set combining fractions and decimals, complementing EP.M3 (Fractions), EP.M3B (Fractions: Practice Set 2), EP.M4 and EP.M4B (Decimals), EP.M30 and EP.M36 (Fractions, Decimals and Percentages Depth), EP.M47 (Fractions: Practice Set 3), EP.M48 (Decimals: Practice Set 3) and EP.M65 (Fractions: Practice Set 4). It covers simplifying and ordering fractions, converting between fractions, decimals and percentages, all four operations with fractions and decimals, place value and rounding, fractions of an amount, and worded and multi-step reasoning problems that draw on both fractions and decimals together. Questions are ramped from straightforward warm-up items to demanding multi-step problems designed to stretch the strongest candidates.

1 Work out 3/5 + 7/15, giving your answer as a mixed number in its simplest form.

(2)

2 Owen buys a jigsaw puzzle for £6.75 and a board game for £9.40 at a toy shop in Norwich. He pays with a £20 note. Work out how much change he receives.

(2)

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3 Find 5/9 of 162.

- ☐ A) 72
- ☐ B) 90
- ☐ C) 108
- ☐ D) 54
- ☐ E) 126

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4 The number 24.6857 is to be rounded.

(a) Round 24.6857 to the nearest whole number. **(1)**

(b) Round 24.6857 to 1 decimal place. **(1)**

(c) Round 24.6857 to 2 decimal places. **(1)**

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5 Put these in order of size, smallest first: 46%, 9/20, 0.435, 11/25

(3)

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Mark scheme · 2.68-5 Fractions and Decimals: Practice Set 5: 10-minute Pack

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

Question 1

both fractions converted to a common denominator, e.g. 9/15 + 7/15	**M1**
1 1/15 cao	**A1**

Answer: 1 1/15

Question 2

6.75 + 9.40 (= 16.15) seen, or equivalent complete method	**M1**
£3.85 cao	**A1**

Answer: £3.85

Question 3

162 / 9 (= 18) seen	**M1**
B) 90 cao	**A1**

Answer: B) 90

Question 4

(a) 25 cao	**B1**

(a) Answer: 25

(b) 24.7 cao	**B1**

(b) Answer: 24.7

(c) 24.69 cao	**B1**

(c) Answer: 24.69

Question 5

at least three values correctly converted to a common form (e.g. decimals: 0.46, 0.45, 0.435, 0.44)	**M1**
all four values correctly converted	**A1**
0.435, 11/25, 9/20, 46% cao, in this order	**A1**

Answer: 0.435, 11/25, 9/20, 46%

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