2.3-3 Fractions: Practice Set 3: 10-minute Pack

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

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

Fractions: Practice Set 3

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A third original 11+ fractions practice set, complementing EP.M3 (Fractions), EP.M3B (Fractions: Practice Set 2), EP.M30 and EP.M36 (Fractions, Decimals and Percentages Depth). It covers equivalence, simplifying, ordering, converting between mixed numbers and improper fractions, all four operations with proper fractions and mixed numbers, finding fractions of an amount, and worded and multi-step reasoning problems. Questions are ramped from straightforward warm-up items to demanding multi-step problems designed to stretch the strongest candidates.

1 Work out 2 5/9 + 1 5/6, giving your answer as a mixed number in its simplest form.

(2)

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2 Find 7/11 of 121.

- ☐ A) 66
- ☐ B) 70
- ☐ C) 77
- ☐ D) 84
- ☐ E) 91

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3 A laptop in a Sheffield electronics shop costs £184. Ravi buys the laptop and a case that costs 3/8 of the laptop's price. How much does the case cost?

(2)

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4 Nadia has £96. She spends 1/4 of it on a train ticket. She then spends 1/3 of what remains on lunch. How much money does Nadia have left?

(3)

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5 Write these fractions in order of size, smallest first: 5/6, 3/4, 11/12, 2/3

(2)

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Mark scheme · 2.3-3 Fractions: Practice Set 3: 10-minute Pack

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

Question 1

both mixed numbers converted to a common denominator, e.g. 46/18 + 33/18	**M1**
4 7/18 cao	**A1**

Answer: 4 7/18

Question 2

121 / 11 (= 11) seen	**M1**
C) 77 cao	**A1**

Answer: C) 77

Question 3

184 / 8 (= 23) seen	**M1**
£69 cao	**A1**

Answer: £69

Question 4

amount spent on the ticket found, 1/4 x 96 = 24, and £72 remaining	**M1**
1/3 x 72 (= 24) found, ft from the remaining amount	**M1**
£48 cao	**A1**

Answer: £48

Question 5

all four fractions converted to a common denominator (e.g. twelfths: 10/12, 9/12, 11/12, 8/12)	**M1**
2/3, 3/4, 5/6, 11/12 cao, in this order	**A1**

Answer: 2/3, 3/4, 5/6, 11/12

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