2.3 Fractions: 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.

1 Work out each answer, giving each as a mixed number in its simplest form.

(a) 2 1/4 + 1 5/6 **(3)**

(b) 5 1/3 - 2 3/4 **(3)**

2 A bakery in Leeds bakes 240 loaves one morning. By 10am, 3/8 of the loaves have been sold. Of the loaves that remain, 1/3 are sold by noon. How many loaves are left after noon?

(4)

3 A sequence of fractions begins 1/2, 2/3, 3/4, 4/5, ... Write the next two terms and a rule for the nth term.

(3)

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Mark scheme · 2.3 Fractions: 10-minute Pack

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

Question 1

(a) common denominator of 12 used, e.g. 2 3/12 + 1 10/12	**M1**
(a) whole numbers and twelfths combined correctly, e.g. 3 13/12	**M1**
(a) 4 1/12 cao	**A1**
(a) Answer: 4 1/12	
(b) common denominator of 12 used, e.g. 5 4/12 - 2 9/12	**M1**
(b) correct handling of borrowing, e.g. 4 16/12 - 2 9/12	**M1**
(b) 2 7/12 cao	**A1**
(b) Answer: 2 7/12	

Question 2

3/8 x 240 (= 90) seen	**M1**
150 loaves remaining after 10am	**A1**
1/3 x 150 (= 50), ft from remaining loaves	**M1**
100 (loaves) cao	**A1**
Answer: 100 loaves	

Question 3

5/6 cao	**B1**
6/7 cao	**B1**
correct rule stated, e.g. nth term = n/(n+1) oe	**B1**
Answer: next terms: 5/6, 6/7; rule: nth term = n/(n+1)	

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