2.73 Adding and Subtracting Fractions with Unlike Denominators: 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 Calculate 2/3 - 1/4.

- ☐ A) 11/12
- ☐ B) 1/3
- ☐ C) 5/7
- ☐ D) 1/12
- ☐ E) 5/12

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2 Find the value of 3/5 + 2/7.

- ☐ A) 31/35
- ☐ B) 5/12
- ☐ C) 13/35
- ☐ D) 6/7
- ☐ E) 1 3/35

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3 Calculate 7/8 - 1/3.

- ☐ A) 7/11
- ☐ B) 6/11
- ☐ C) 5/24
- ☐ D) 13/24
- ☐ E) 4/24

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4 Calculate 2 1/4 - 3/8. Give your answer as a mixed number.

- ☐ A) 1 7/8
- ☐ B) 1 1/4
- ☐ C) 2 1/8
- ☐ D) 1 3/8
- ☐ E) 2 5/8

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5 Find 5/12 + 1/18 and give your answer in simplest form.

- ☐ A) 17/18
- ☐ B) 17/36
- ☐ C) 7/36
- ☐ D) 1/3
- ☐ E) 11/36

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6 Calculate 7/15 - 1/6 and give the answer in simplest form.

- ☐ A) 9/30
- ☐ B) 11/30
- ☐ C) 3/10
- ☐ D) 4/15
- ☐ E) 1/5

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7 Work out 3/4 + 5/12. Give your answer in simplest form.

(2)

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8 A recipe needs 2/3 litre of milk and you then add a further 1/4 litre. How much milk is used in total? Give your answer in simplest form.

(2)

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9 Sofia ate 3/5 of a tart and Amir ate 1/3 of the same tart. What fraction of the tart remains?

(2)

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Mark scheme · 2.73 Adding and Subtracting Fractions with Unlike Denominators: 10-minute Pack

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

Question 1

correct option E (5/12) cao **B1**

Answer: E) 5/12

Question 2

correct option A (31/35) cao **B1**

Answer: A) 31/35 (3/5 = 21/35; 2/7 = 10/35; 21/35 + 10/35 = 31/35).

Question 3

correct option D (13/24) cao **B1**

Answer: D) 13/24

Question 4

correct option A (1 7/8) cao **B1**

Answer: A) 1 7/8

Question 5

correct option B (17/36) cao **B1**

Answer: B) 17/36

Question 6

correct option C (3/10) cao **B1**

Answer: C) 3/10

Question 7

common denominator method seen (3/4 = 9/12) or equivalent **M1**

1 1/6 or 7/6 cao **A1**

Answer: 1 1/6 (14/12 = 7/6).

Question 8

Attempt to use common denominator (2/3 = 8/12, 1/4 = 3/12) or equivalent **M1**

11/12 litre cao **A1**

Answer: 11/12 litre.

Question 9

Common denominator used to add fractions eaten (3/5 = 9/15, 1/3 = 5/15) or equivalent **M1**

1/15 remains cao **A1**

Answer: 1/15 of the tart remains.

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