3.2 Fractions: 30-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 5/6 - 1/3.

(Total for Question 1 is 1 mark)

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2 Work out 2/3 × 3/5.

(Total for Question 2 is 1 mark)

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3 Which fraction is equivalent to 3/5? Circle one: 6/10, 4/6, 3/8.

- ☐ 6/10
- ☐ 4/6
- ☐ 3/8

(Total for Question 3 is 1 mark)

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4 Work out 7/9 - 4/9. Give your answer in its simplest form.

(Total for Question 4 is 2 marks)

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5 Work out 3/5 ÷ 3.

(Total for Question 5 is 2 marks)

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6 Work out 3 1/3 divided by 1 2/5. Give your answer as a mixed number in its simplest form.

(Total for Question 6 is 3 marks)

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7 A recipe for 8 people needs 2 1/2 cups of flour and 3/4 cup of sugar. Aisha wants to make enough of the recipe for 20 people.

(a) Work out how many cups of flour Aisha needs for 20 people. **(2)**

.....

(b) Work out how many cups of sugar Aisha needs for 20 people. **(2)**

.....

(Total for Question 7 is 4 marks)

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8 Maya spends 2/3 of her wages on travel. She then spends 1/2 of the money she has left on books.
What fraction of her wages does Maya have left? Give your answer in its simplest form.

(Total for Question 8 is 3 marks)

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9 Simplify 12/18. Show your working.

(Total for Question 9 is 4 marks)

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10 A class completed 5/8 of a test. Later, 3/10 of the pupils who had not completed it finished the test. What fraction of the class have now completed the test?

(Total for Question 10 is 3 marks)

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Mark scheme · 3.2 Fractions: 30-minute Pack

Question 1

1/2 cao **B1**

Answer: 1/2

Question 2

2/5 cao **B1**

Answer: 2/5

Question 3

6/10 cao **B1**

Answer: 6/10

Question 4

3/9 oe (subtracting the numerators, same denominator) **M1**

1/3 cao (simplest form) **A1**

Answer: 1/3

Question 5

correct method, e.g. 3/5 × 1/3 or showing division by 3 as multiply by 1/3 **M1**

1/5 cao **A1**

Answer: 1/5

Question 6

converts both mixed numbers to improper fractions, 10/3 and 7/5 **M1**

10/3 x 5/7 oe (multiplying by the reciprocal of 7/5) **M1**

2 8/21 cao **A1**

Answer: 2 8/21

Question 7

(a) scale factor 20/8 = 2.5 oe, used with 2 1/2 **M1**

(a) 6 1/4 cups oe (e.g. 6.25 cups), cao **A1**

(a) Answer: 6 1/4 cups (6.25 cups)

(b) 2.5 x 3/4 oe (ft scale factor from part (a)) **M1**

(b) 1 7/8 cups oe (e.g. 1.875 cups), cao **A1**

(b) Answer: 1 7/8 cups (1.875 cups)

Question 8

1 - 2/3 = 1/3 **M1**

1/2 of the remainder or 1/2 x 1/3 **M1**

1/6 cao **A1**

Answer: 1/6

Question 9

divide numerator and denominator by a common factor, e.g. 6 **M1**

show 12/18 = (12/6)/(18/6) or 2/3 by method **M1**

2/3 cao **A1**

explicit working shown or equivalent explanation **B1**

Answer: 2/3

Question 10

find fraction remaining 1 - 5/8 = 3/8 and find 3/10 of that, 3/10 × 3/8 **M1**

add new completions to original, e.g. 5/8 + 9/80 **M1**

59/80 cao **A1**

Answer: 59/80

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