FOUNDATION

1.5 Writing, Simplifying and Ordering Fractions: 30-minute Pack

Total Marks

EDEXCEL 1MA1 · Calculator allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Tomasz has a bag of 12 counters. 5 of the counters are red, 4 are blue and 3 are green.

(a) Write down the fraction of the counters that are red. **(1)**

.....

(b) Write down the fraction of the counters that are blue. **(1)**

.....

(c) Simplify your answer to part (b) fully. **(1)**

(Total for Question 1 is 3 marks)

2 Find the missing number: 5/6 = ?/54

(Total for Question 2 is 1 mark)

3 Write these fractions in order of size, smallest first: 1/2, 1/3, 1/4

(Total for Question 3 is 3 marks)

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4 Simplify each fraction fully.

(a) 6/8 **(1)**

(b) 10/15 **(1)**

(c) 12/18 **(1)**

(d) 20/45 **(1)**

(Total for Question 4 is 4 marks)

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5 Circle the correct equivalent fraction in each part.

(a) Which fraction is equivalent to 3/4? **(1)**

- ☐ A) 6/9
- ☐ B) 9/12
- ☐ C) 8/10
- ☐ D) 12/20

(b) Which fraction is equivalent to 2/5? **(1)**

- ☐ A) 4/15
- ☐ B) 6/20
- ☐ C) 8/20
- ☐ D) 10/20

(Total for Question 5 is 2 marks)

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6 Find the missing number in each pair of equivalent fractions.

(a) 3/4 = ?/20 **(1)**

.....

(b) 5/6 = 15/? **(1)**

.....

(c) 2/9 = 8/? **(1)**

.....

(d) ?/7 = 12/21 **(1)**

.....

(Total for Question 6 is 4 marks)

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7 Write these fractions in order of size, starting with the smallest.

5/9 2/9 7/9 4/9

(Total for Question 7 is 2 marks)

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8 Write these fractions in order of size, starting with the smallest.

1/2 3/8 5/6

(Total for Question 8 is 3 marks)

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9 Insert <, > or = between each pair of fractions.

(a) 3/5 ___ 7/10 **(1)**

(b) 5/6 ___ 7/9 **(1)**

(c) 4/8 ___ 1/2 **(1)**

(d) 5/12 ___ 3/8 **(1)**

(Total for Question 9 is 4 marks)

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Mark scheme · 1.5 Writing, Simplifying and Ordering Fractions: 30-minute Pack

Question 1

(a) 5/12 oe **B1**

(a) Answer: 5/12

(b) 4/12 oe **B1**

(b) Answer: 4/12

(c) 1/3 cao **B1**

(c) Answer: 1/3

Question 2

45 cao **B1**

Answer: 45

Question 3

writes the fractions over a common denominator, e.g. 12 **M1**

converted fractions all correct **M1**

1/4, 1/3, 1/2 cao **A1**

Answer: 1/4, 1/3, 1/2

Question 4

(a) 3/4 cao **B1**

(a) Answer: 3/4

(b) 2/3 cao **B1**

(b) Answer: 2/3

(c) 2/3 cao **B1**

(c) Answer: 2/3

(d) 4/9 cao **B1**

(d) Answer: 4/9

Question 5

(a) B) 9/12 **B1**

(a) Answer: B) 9/12

(b) C) 8/20 **B1**

(b) Answer: C) 8/20

Question 6

(a) 15 cao **B1**

(a) Answer: 15

(b) 18 cao **B1**

(b) Answer: 18

(c) 36 cao **B1**

(c) Answer: 36

(d) 4 cao **B1**

(d) Answer: 4

Question 7

recognising that with a common denominator the order follows the numerators **M1**

2/9, 4/9, 5/9, 7/9 cao **A1**

Answer: 2/9, 4/9, 5/9, 7/9

Question 8

converting to a common denominator of 24, at least two correct: 12/24, 9/24, 20/24 **M1**

correctly ordering the converted fractions **M1**

3/8, 1/2, 5/6 cao (in original fraction form) **A1**

Answer: 3/8, 1/2, 5/6

Question 9

(a) < cao **B1**

(a) Answer: <

(b) > cao **B1**

(b) Answer: >

(c) = cao **B1**

(c) Answer: =

(d) > cao **B1**

(d) Answer: >

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