3.2 Fractions: 1-hour Pack

EDEXCEL 1MA1 · Calculator allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 7/8 of 24.

(Total for Question 1 is 2 marks)

2 Work out 2 2/5 + 1 4/5. Give your answer as a mixed number.

(Total for Question 2 is 2 marks)

3 Work out 1/4 + 1/4.

(Total for Question 3 is 2 marks)

4 Work out 5/6 - 1/6.

(Total for Question 4 is 2 marks)

5 Work out 2 x 3/7.

(Total for Question 5 is 2 marks)

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6 Work out 5 1/4 - 2 5/6. Give your answer as a mixed number in its simplest form.

(Total for Question 6 is 3 marks)

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7 A piece of ribbon is 96 cm long. Ben cuts off 3/8 of the ribbon.

(a) Work out the length of ribbon that Ben cuts off. **(2)**

.....

(b) Chloe then cuts off 3/5 of the ribbon that remains after Ben's cut. Work out the length of ribbon that is left. **(2)**

.....

(Total for Question 7 is 4 marks)

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8 Work out 2 2/5 - 1 3/5
Give your answer as a mixed number in its simplest form.

(Total for Question 8 is 3 marks)

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9 Work out 1/2 - 2/9
Give your answer as a fraction in its simplest form.

(Total for Question 9 is 2 marks)

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10 Work out 4 1/3 x 1 5/6

Give your answer as a mixed number in its simplest form.

(Total for Question 10 is 3 marks)

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11 Work out 3/4 / 5/9

Give your answer as a fraction in its simplest form.

(Total for Question 11 is 2 marks)

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12 Work out 3 1/2 + 3 3/4

Give your answer as a mixed number in its simplest form.

(Total for Question 12 is 3 marks)

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13 Work out 3 1/2 x 3 2/3

Give your answer as a mixed number in its simplest form.

(Total for Question 13 is 3 marks)

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14 Work out 4/5 - 7/10

Give your answer as a fraction in its simplest form.

(Total for Question 14 is 2 marks)

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15 Maya spends 5/8 of her wages on rent. She then spends 1/2 of the money she has left on clothes.
What fraction of her wages does Maya have left? Give your answer in its simplest form.

(Total for Question 15 is 3 marks)

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16 Work out 2 1/3 - 1 2/3
Give your answer as a mixed number in its simplest form.

(Total for Question 16 is 3 marks)

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17 Work out 2 3/4 + 1 5/6. Give your answer as a mixed number in its simplest form.

(Total for Question 17 is 3 marks)

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18 Write 7/4 as a mixed number.

(Total for Question 18 is 2 marks)

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Mark scheme · 3.2 Fractions: 1-hour Pack

Question 1

method: 7/8 × 24 or (24 ÷ 8) × 7 shown	**M1**
21 cao	**A1**

Answer: 21

Question 2

convert or add whole and fractions correctly, e.g. 2 + 1 and 2/5 + 4/5 = 6/5 shown	**M1**
4 1/5 cao	**A1**

Answer: 4 1/5

Question 3

correct addition of numerators with common denominator, 1/4 + 1/4 = 2/4 (ft)	**M1**
1/2 cao (or 2/4 simplified)	**A1**

Answer: 1/2

Question 4

subtract numerators with common denominator 5/6 - 1/6 = 4/6	**M1**
2/3 cao (4/6 simplified to 2/3)	**A1**

Answer: 2/3

Question 5

multiply numerator by 2: 2 x 3/7 = 6/7 or equivalent method	**M1**
6/7 cao	**A1**

Answer: 6/7

Question 6

converts both mixed numbers to improper fractions, 21/4 and 17/6	**M1**
63/12 - 34/12 oe (common denominator of 12 used)	**M1**
2 5/12 cao	**A1**

Answer: 2 5/12

Question 7

(a) 96/8 = 12 oe (dividing by the denominator)	**M1**
(a) 36 (cm) cao	**A1**

(a) Answer: 36 cm

(b) 96 - 36 = 60 (ft from part (a)), then 3/5 x 60 = 36 oe, Chloe's cut	**M1**
(b) 24 (cm) cao	**A1**

(b) Answer: 24 cm

Question 8

converts to improper fractions	**M1**
correct operation on the fractions	**M1**
4/5 cao	**A1**

Answer: 4/5

Question 9

common denominator 18 or equivalent fractions	**M1**
5/18 cao	**A1**

Answer: 5/18

Question 10

converts to improper fractions	**M1**
correct operation on the fractions	**M1**
7 17/18 cao	**A1**

Answer: 7 17/18

Question 11

multiply by the reciprocal numerators/denominators correctly	**M1**
1 7/20 or 27/20 cao	**A1**

Answer: 1 7/20

Question 12

converts to improper fractions	**M1**
correct operation on the fractions	**M1**
7 1/4 cao	**A1**

Answer: 7 1/4

Question 13

converts to improper fractions	**M1**
correct operation on the fractions	**M1**
12 5/6 cao	**A1**

Answer: 12 5/6

Question 14

common denominator 10 or equivalent fractions	**M1**
1/10 cao	**A1**

Answer: 1/10

Question 15

1 - 5/8 = 3/8	**M1**
1/2 of the remainder or 1/2 x 3/8	**M1**
3/16 cao	**A1**

Answer: 3/16

Question 16

converts to improper fractions	**M1**
correct operation on the fractions	**M1**
2/3 cao	**A1**

Answer: 2/3

Question 17

converts both mixed numbers to improper fractions, 11/4 and 11/6	**M1**
33/12 + 22/12 oe (common denominator of 12 used)	**M1**
4 7/12 cao	**A1**

Answer: 4 7/12

Question 18

divide 7 by 4 to get 1 remainder 3 (method shown or implied)	**M1**
1 3/4 cao	**A1**

Answer: 1 3/4

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