2.4 Fractions of an Amount: 1-hour Pack

EDEXCEL 1MA1 · Calculator allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A bag has 40 marbles. 2/5 of the marbles are red and 1/5 are blue. The rest are green. How many are green?

(Total for Question 1 is 3 marks)

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2 Grace earns £30. Grace spends 1/2 of the money on rent. Grace then spends 1/5 of the money that is left on food. How much money does Grace have left?

(Total for Question 2 is 3 marks)

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3 5/6 of a number is 75. Work out the number.

(Total for Question 3 is 2 marks)

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4 Work out 1/6 of 24 kg.

(Total for Question 4 is 2 marks)

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5 A bag has 200 marbles. 2/5 of the marbles are red and 1/5 are blue. The rest are green. How many are green?

(Total for Question 5 is 3 marks)

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6 Isla earns £30. Isla spends 1/3 of the money on rent. Isla then spends 1/5 of the money that is left on food. How much money does Isla have left?

(Total for Question 6 is 3 marks)

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7 2/5 of a number is 20. Work out the number.

(Total for Question 7 is 2 marks)

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8 Work out 4/8 of £160.

(Total for Question 8 is 2 marks)

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9 A bag has 120 marbles. 3/5 of the marbles are red and 1/5 are blue. The rest are green. How many are green?

(Total for Question 9 is 3 marks)

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10 Work out 9/10 of 130 kg.

(Total for Question 10 is 2 marks)

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11 3/6 of a number is 24. Work out the number.

(Total for Question 11 is 2 marks)

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12 A bag has 90 beads. 2/5 of the beads are red and 1/5 are blue. The rest are green. How many are green?

(Total for Question 12 is 3 marks)

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13 Work out 2/3 of 72 kg.

(Total for Question 13 is 2 marks)

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14 A bag has 240 sweets. 1/5 of the sweets are red and 2/5 are blue. The rest are green. How many are green?

(Total for Question 14 is 3 marks)

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15 Work out 1/4 of 56 kg.

(Total for Question 15 is 2 marks)

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16 Dina earns £45. Dina spends 1/3 of the money on rent. Dina then spends 1/5 of the money that is left on food. How much money does Dina have left?

(Total for Question 16 is 3 marks)

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17 A recipe for flapjacks uses 250 g of oats. Bella wants to make 2/5 of the recipe. Work out the mass of oats Bella needs.

(Total for Question 17 is 2 marks)

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18 Harry spends 3/7 of his monthly pocket money on a video game. He spends £45.

(a) Work out Harry's total monthly pocket money. **(2)**

(b) Work out how much money Harry has left after buying the video game. **(1)**

(Total for Question 18 is 3 marks)

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19 Show that 3/11 of 121 is 33.

(Total for Question 19 is 2 marks)

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Mark scheme · 2.4 Fractions of an Amount: 1-hour Pack

Question 1

2/5 of 40 = 16	**M1**
1/5 of 40 = 8	**M1**
16 cao	**A1**

Answer: 16

Question 2

1/2 of 30	**M1**
30 - 15 or 1/5 of 15	**M1**
£12 cao	**A1**

Answer: £12

Question 3

75 / 5 or x 6	**M1**
90 cao	**A1**

Answer: 90

Question 4

24 kg / 6 or equivalent	**M1**
4 kg cao	**A1**

Answer: 4 kg

Question 5

2/5 of 200 = 80	**M1**
1/5 of 200 = 40	**M1**
80 cao	**A1**

Answer: 80

Question 6

1/3 of 30	**M1**
30 - 10 or 1/5 of 20	**M1**
£16 cao	**A1**

Answer: £16

Question 7

20 / 2 or x 5	**M1**
50 cao	**A1**

Answer: 50

Question 8

£160 / 8 or equivalent	**M1**
£80 cao	**A1**

Answer: £80

Question 9

3/5 of 120 = 72	**M1**
1/5 of 120 = 24	**M1**
24 cao	**A1**

Answer: 24

Question 10

130 kg / 10 or equivalent	**M1**
117 kg cao	**A1**

Answer: 117 kg

Question 11

24 / 3 or x 6	**M1**
48 cao	**A1**

Answer: 48

Question 12

2/5 of 90 = 36	**M1**
1/5 of 90 = 18	**M1**
36 cao	**A1**

Answer: 36

Question 13

72 kg / 3 or equivalent	**M1**
48 kg cao	**A1**

Answer: 48 kg

Question 14

1/5 of 240 = 48	**M1**
2/5 of 240 = 96	**M1**
96 cao	**A1**

Answer: 96

Question 15

56 kg / 4 or equivalent	**M1**
14 kg cao	**A1**

Answer: 14 kg

Question 16

1/3 of 45	**M1**
45 - 15 or 1/5 of 30	**M1**
£24 cao	**A1**

Answer: £24

Question 17

250 / 5 = 50 oe (dividing by the denominator)	**M1**
100 (g) cao	**A1**

Answer: 100 g

Question 18

(a) 45 / 3 = 15 oe (finding one-seventh of his pocket money)	**M1**
(a) 105 (pounds) cao	**A1**

(a) Answer: £105

(b) 60 (pounds) ft from part (a), cao	**B1**

(b) Answer: £60

Question 19

121 / 11 = 11 oe (dividing by the denominator)	**M1**
cso, 11 x 3 = 33 shown, matching the given answer	**A1**

Answer: 3/11 of 121 = 33 (shown)

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