2.4 Fractions of an Amount: 30-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A bag of soil weighs 21 kg. Work out 1/3 of 21 kg.

(Total for Question 1 is 1 mark)

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2 What is 1/6 of 42?

- ☐ A) 6
- ☐ B) 7
- ☐ C) 8
- ☐ D) 9

(Total for Question 2 is 1 mark)

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3 Which of the following is equal to 5/8 of 32?

- ☐ A) 12
- ☐ B) 16
- ☐ C) 20
- ☐ D) 24

(Total for Question 3 is 1 mark)

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4 Isla receives £63 of birthday money. She saves 1/9 of it. Work out how much money Isla saves.

(Total for Question 4 is 1 mark)

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5 A cycle path is 45 km long. Work out 1/9 of 45 km.

(Total for Question 5 is 1 mark)

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6 Work out 1/4 of 28.

(Total for Question 6 is 1 mark)

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7 Work out 3/5 of 35.

(Total for Question 7 is 1 mark)

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8 Work out 2/3 of 15.

(Total for Question 8 is 1 mark)

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9 Work out 1/6 of 42.

(Total for Question 9 is 1 mark)

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10 Work out 4/9 of 63.

(Total for Question 10 is 1 mark)

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11 Work out 5/12 of 84 cm.

(Total for Question 11 is 1 mark)

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12 Sam has £40. He spends 3/5 of his money on a jacket.

(a) Work out how much money Sam spends on the jacket. **(2)**

.....

(b) Work out how much money Sam has left. **(1)**

.....

(Total for Question 12 is 3 marks)

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13 There are 320 pupils at Oakfield School. 5/8 of the pupils are girls.

(a) Work out the number of pupils who are girls. **(2)**

.....

(b) Work out the number of pupils who are boys. **(1)**

.....

(Total for Question 13 is 3 marks)

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14 Chloe is driving on a journey of 84 miles. She has driven 3/7 of the journey so far. Work out how many miles Chloe has left to drive.

(Total for Question 14 is 3 marks)

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15 Zainab was asked to work out 3/8 of 96. Her working is shown below:

96 / 3 = 32
32 x 8 = 256

Zainab's answer of 256 is wrong.

(a) State the mistake that Zainab has made. **(1)**

(b) Work out the correct value of 3/8 of 96. **(2)**

.....

(Total for Question 15 is 3 marks)

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16 Show that 5/9 of 108 is equal to 60.

(Total for Question 16 is 2 marks)

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Mark scheme · 2.4 Fractions of an Amount: 30-minute Pack

Question 1

7 (kg) cao **B1**

Answer: 7 kg

Question 2

B) 7 **B1**

Answer: B) 7

Question 3

C) 20 **B1**

Answer: C) 20

Question 4

7 (pounds) cao **B1**

Answer: £7

Question 5

5 (km) cao **B1**

Answer: 5 km

Question 6

7 cao **B1**

Answer: 7

Question 7

21 cao **B1**

Answer: 21

Question 8

10 cao **B1**

Answer: 10

Question 9

7 cao **B1**

Answer: 7

Question 10

28 cao **B1**

Answer: 28

Question 11

35 cm cao **B1**

Answer: 35 cm

Question 12

(a) 40 / 5 = 8 oe (dividing by the denominator) **M1**

(a) 24 (pounds) cao **A1**

(a) Answer: £24

(b) 16 (pounds) ft from part (a), cao **B1**

(b) Answer: £16

Question 13

(a) 320 / 8 = 40 oe (dividing by the denominator) **M1**

(a) 200 cao **A1**

(a) Answer: 200

(b) 120 ft from part (a), cao **B1**

(b) Answer: 120

Question 14

84 / 7 = 12 oe (dividing by the denominator) **M1**

12 x 3 = 36 (dep on previous method), the distance already driven **M1**

48 cao **A1**

Answer: 48 miles

Question 15

(a) Zainab divided by the numerator (3) instead of the denominator (8), and then multiplied by the denominator (8) instead of the numerator (3) oe **B1**

(a) Answer: Zainab divided by the numerator instead of the denominator (and multiplied by the denominator instead of the numerator).

(b) 96 / 8 = 12 oe (dividing by the denominator) **M1**

(b) 36 cao **A1**

(b) Answer: 36

Question 16

108 / 9 = 12 oe (dividing by the denominator) **M1**

cso, 12 x 5 = 60 shown, matching the given answer **A1**

Answer: 5/9 of 108 = 60 (shown)

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