2.5 Fractions, Decimals and Percentages: 30-minute Pack

Total Marks

EDEXCEL 1MA1 · Calculator allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 3/5 as a decimal.

(Total for Question 1 is 1 mark)

2 Write 125% as a decimal.

(Total for Question 2 is 1 mark)

3 Write 0.45 as a percentage.

(Total for Question 3 is 1 mark)

4 Write 9/20 as a decimal.

(Total for Question 4 is 1 mark)

5 Write 0.08 as a percentage.

(Total for Question 5 is 1 mark)

6 Write 12% as a decimal.

(Total for Question 6 is 1 mark)

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7 A gym membership costs £60 per month. Members get a voucher for a 15% discount.

Work out 15% of £60.

(Total for Question 7 is 2 marks)

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8 Freya eats 2/7 of a pizza. Her brother eats 3/7 of the same pizza.

Work out what fraction of the pizza they eat altogether.

(Total for Question 8 is 1 mark)

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9 Work out 2/5 x 20.

(Total for Question 9 is 2 marks)

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10 Write 4% as a fraction in its simplest form.

(Total for Question 10 is 2 marks)

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11 Write 40% as a decimal.

(Total for Question 11 is 1 mark)

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12 Write 11/25 as a percentage.

(Total for Question 12 is 1 mark)

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13 Write these values in order of size, starting with the smallest.

0.7 3/4 68% 13/20

(Total for Question 13 is 3 marks)

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14 A television costs £320. The price of the television increases by 8%.

Work out the new price of the television.

(Total for Question 14 is 3 marks)

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15 Show that 7/16 is less than 45%. You must show your working.

(Total for Question 15 is 2 marks)

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Mark scheme · 2.5 Fractions, Decimals and Percentages: 30-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

0.6 cao **B1**

Answer: 0.6

Question 2

1.25 cao **B1**

Answer: 1.25

Question 3

45% cao **B1**

Answer: 45%

Question 4

0.45 cao **B1**

Answer: 0.45

Question 5

8% cao **B1**

Answer: 8%

Question 6

0.12 cao **B1**

Answer: 0.12

Question 7

0.15 x 60 oe (e.g. 10% + 5% method: 6 + 3) **M1**

£9 cao **A1**

Answer: £9

Question 8

5/7 cao **B1**

Answer: 5/7

Question 9

20 divided by 5 (=4) oe, or 2 x 20 (=40) seen **M1**

8 cao **A1**

Answer: 8

Question 10

4/100 or equivalent **M1**

1/25 cao **A1**

Answer: 1/25

Question 11

0.4 cao **B1**

Answer: 0.4

Question 12

44% cao **B1**

Answer: 44%

Question 13

at least 3 of the values correctly converted to a common form, e.g. decimals 0.7, 0.75, 0.68, 0.65 **M1**

all 4 values correctly ordered as decimals (0.65, 0.68, 0.7, 0.75) **M1**

13/20, 68%, 0.7, 3/4 cao (correct order using original labels) **A1**

Answer: 13/20, 68%, 0.7, 3/4

Question 14

8% of 320 (=25.6) found oe **M1**

320 + 25.6 oe **M1**

£345.60 cao **A1**

Answer: £345.60

Question 15

convert 7/16 to a decimal or a percentage: 7/16 = 0.4375 (= 43.75%) **M1**

43.75% is less than 45%, so 7/16 is less than 45% cso **A1**

Answer: 7/16 = 43.75%, which is less than 45%, so 7/16 is less than 45% as required.

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