2.5 Fractions, Decimals and Percentages: 1-hour Pack

EDEXCEL 1MA1 · Calculator allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Priya scored 34 marks out of 40 in a Science test.

Work out Priya's score as a percentage.

(Total for Question 1 is 3 marks)

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2 In Test A, Dev scored 13 out of 25. In Test B, Dev scored 19 out of 50. In which test did Dev do better? Show your working.

(Total for Question 2 is 3 marks)

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3 Write the fraction 3/4 as (a) a decimal, (b) a percentage.

(Total for Question 3 is 2 marks)

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4 In Test A, Dev scored 33 out of 40. In Test B, Dev scored 55 out of 80. In which test did Dev do better? Show your working.

(Total for Question 4 is 3 marks)

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5 Write these numbers in order of size, starting with the smallest: 2/5, 0.34, 47%

(Total for Question 5 is 3 marks)

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6 Write 60% as a fraction in its simplest form.

(Total for Question 6 is 2 marks)

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7 Write the fraction 9/10 as (a) a decimal, (b) a percentage.

(Total for Question 7 is 2 marks)

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8 Write these numbers in order of size, starting with the smallest: 3/8, 0.455, 33.5%

(Total for Question 8 is 3 marks)

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9 Write the fraction 1/2 as (a) a decimal, (b) a percentage.

(Total for Question 9 is 2 marks)

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10 Write 64% as a fraction in its simplest form.

(Total for Question 10 is 2 marks)

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11 Write these numbers in order of size, starting with the smallest: 13/20, 0.57, 71%

(Total for Question 11 is 3 marks)

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12 In Test A, Dev scored 26 out of 40. In Test B, Dev scored 37 out of 80. In which test did Dev do better? Show your working.

(Total for Question 12 is 3 marks)

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13 Write the fraction 7/8 as (a) a decimal, (b) a percentage.

(Total for Question 13 is 2 marks)

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14 Write 7.5% as a fraction in its simplest form.

(Total for Question 14 is 2 marks)

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15 Jamal writes down the decimal 0.28.

(a) Write 0.28 as a percentage. **(1)**

(b) Write 0.28 as a fraction in its simplest form. **(2)**

(Total for Question 15 is 3 marks)

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16 Write 0.125 as a fraction in its simplest form.

(Total for Question 16 is 1 mark)

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17 Write 7/8 as a percentage.

(Total for Question 17 is 1 mark)

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18 The same pair of speakers costs £80 in two different shops.

Shop A reduces the price by 30%.
Shop B reduces the price by 1/4.

Work out which shop offers the cheaper price for the speakers, and by how much. You must show all your working.

(Total for Question 18 is 4 marks)

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19 Order the following values from smallest to largest: 7/20, 0.36, 33%, 3/8. Give the list in the same format as the question.

(Total for Question 19 is 2 marks)

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Mark scheme · 2.5 Fractions, Decimals and Percentages: 1-hour Pack

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

Question 1

34/40 written or 34 divided by 40 (=0.85) oe	**M1**
0.85 x 100 oe	**M1**
85% cao	**A1**

Answer: 85%

Question 2

13/25 or 19/50 converted to a percentage, decimal or common fraction	**M1**
52% and 38%	**A1**
Test A	**B1**

Answer: Test A

Question 3

0.75 cao	**B1**
75% cao	**B1**

Answer: (a) 0.75, (b) 75%

Question 4

33/40 or 55/80 converted to a percentage, decimal or common fraction	**M1**
82.5% and 68.75%	**A1**
Test A	**B1**

Answer: Test A

Question 5

converts to a common form, fraction, decimal or percentage	**M1**
all three correctly converted	**M1**
0.34, 2/5, 47% cao	**A1**

Answer: 0.34, 2/5, 47%

Question 6

60/100 or equivalent	**M1**
3/5 cao	**A1**

Answer: 3/5

Question 7

0.9 cao	**B1**
90% cao	**B1**

Answer: (a) 0.9, (b) 90%

Question 8

converts to a common form, fraction, decimal or percentage	**M1**
all three correctly converted	**M1**
33.5%, 3/8, 0.455 cao	**A1**

Answer: 33.5%, 3/8, 0.455

Question 9

0.5 cao	**B1**
50% cao	**B1**

Answer: (a) 0.5, (b) 50%

Question 10

64/100 or equivalent	**M1**
16/25 cao	**A1**

Answer: 16/25

Question 11

converts to a common form, fraction, decimal or percentage	**M1**
all three correctly converted	**M1**
0.57, 13/20, 71% cao	**A1**

Answer: 0.57, 13/20, 71%

Question 12

26/40 or 37/80 converted to a percentage, decimal or common fraction	**M1**
65% and 46.25%	**A1**
Test A	**B1**

Answer: Test A

Question 13

0.875 cao	**B1**
87.5% cao	**B1**

Answer: (a) 0.875, (b) 87.5%

Question 14

7.5/100 or equivalent	**M1**
3/40 cao	**A1**

Answer: 3/40

Question 15

(a) 28% cao	**B1**

(a) Answer: 28%

(b) 28/100 oe seen	**M1**
(b) 7/25 cao	**A1**

(b) Answer: 7/25

Question 16

1/8 cao	**B1**

Answer: 1/8

Question 17

87.5% cao	**B1**

Answer: 87.5%

Question 18

30% of 80 (=24) found, leading to Shop A price of 56 oe	**M1**
1/4 of 80 (=20) found, leading to Shop B price of 60 oe	**M1**
both prices correct: £56 (Shop A) and £60 (Shop B)	**A1**
correct conclusion stated clearly: Shop A is cheaper, by £4 ft from their prices	**C1**

Answer: Shop A is cheaper, by £4 (Shop A: £56, Shop B: £60).

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Question 19

convert to common form or compare: 33% = 0.33, 7/20 = 0.35, 0.36, 3/8 = 0.375 **M1**

33%, 7/20, 0.36, 3/8 cao **A1**

Answer: 33%, 7/20, 0.36, 3/8

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