FOUNDATION

1.2 Multiplication and Division: 1-hour Pack

EDEXCEL 1MA1 · Calculator allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 795 x 18

(Total for Question 1 is 3 marks)

2 Work out 7 x 8.

(Total for Question 2 is 1 mark)

3 Work out 12 x 6.

(Total for Question 3 is 1 mark)

4 Work out 8 x 6.

(Total for Question 4 is 1 mark)

5 Work out 9 x 7.

(Total for Question 5 is 1 mark)

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6 Work out 15 x 15.

(Total for Question 6 is 1 mark)

7 Calculate 125 x 8.

(Total for Question 7 is 1 mark)

8 Work out 209 x 6.

(Total for Question 8 is 2 marks)

9 Work out 17 x 17.

(Total for Question 9 is 1 mark)

10 Work out 402 / 6.

(Total for Question 10 is 1 mark)

11 Calculate 34 x 27.

(Total for Question 11 is 2 marks)

12 Calculate 56 x 34.

(Total for Question 12 is 2 marks)

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13 A map uses the scale 1: 50000. On the map a road measures 2.3 cm. Work out the real distance in kilometres. Give your answer to 2 decimal places.

(Total for Question 13 is 2 marks)

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14 Work out 12345 ÷ 15.

(Total for Question 14 is 2 marks)

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15 The grid shows the start of the grid method for 68 x 43. Two entries are missing.

x	60	8
40	2400	?
3	?	24

Complete the grid, then use it to work out 68 x 43.

(Total for Question 15 is 3 marks)

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16 An allotment plot is a rectangle measuring 3.6 m by 2.4 m. Work out the area of the plot in square metres.

(Total for Question 16 is 2 marks)

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17 A school hires minibuses to take 214 pupils on a trip. Each minibus seats 16 passengers and costs £85 to hire for the day.

(a) Work out the least number of minibuses needed. **(2)**

.....

(b) Work out the total cost of hiring that many minibuses. **(2)**

.....

(Total for Question 17 is 4 marks)

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18 A charity raised £8736 from a sponsored walk, shared equally between 24 local schools. Work out how much each school receives.

(Total for Question 18 is 3 marks)

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19 The product of two whole numbers is 4056. One of the numbers is 24. Work out the other number.

(Total for Question 19 is 3 marks)

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Mark scheme · 1.2 Multiplication and Division: 1-hour Pack

Question 1

method for multiplying, e.g. partial products or grid, with at most one arithmetic error **M1**

complete method with all parts added **M1**

14310 cao **A1**

Answer: 14310

Question 2

56 cao **B1**

Answer: 56

Question 3

72 cao **B1**

Answer: 72

Question 4

48 cao **B1**

Answer: 48

Question 5

63 cao **B1**

Answer: 63

Question 6

225 cao **B1**

Answer: 225

Question 7

1000 cao **B1**

Answer: 1000

Question 8

attempt to use long or column multiplication (e.g. 200 x 6 and 9 x 6 shown) oe **M1**

1254 cao **A1**

Answer: 1254

Question 9

289 cao **B1**

Answer: 289

Question 10

67 cao **B1**

Answer: 67

Question 11

correct method shown, e.g. 34 x 20 and 34 x 7 or column method with at least one correct partial product **M1**

918 cao **A1**

Answer: 918

Question 12

correct method shown, e.g. 56 x 30 and 56 x 4, or column method with at least one correct partial product **M1**

1904 cao **A1**

Answer: 1904

Question 13

convert map distance to real distance: 2.3 x 50000 cm = 115000 cm and convert to km (or show 2.3 x 500 = 1150 m) **M1**

1.15 km cao (given to 2 dp as 1.15 km) **A1**

Answer: 1.15 km

Question 14

evidence of correct division method or statement that 15 x 823 = 12345 **M1**

823 cao **A1**

Answer: 823

Question 15

8 x 40 = 320 correctly entered **B1**

60 x 3 = 180 correctly entered **B1**

2924 cao (ft the sum of the candidate's four grid entries) **A1**

Answer: 2924 (missing entries 320 and 180)

Question 16

correct method shown, e.g. 3.6 x 2.4, or 36 x 24 = 864 scaled by 100 oe **M1**

8.64 m² cao **A1**

Answer: 8.64 m^2

Question 17

(a) correct division shown, e.g. 214 / 16 = 13 remainder 6, or 13.375 oe **M1**

(a) 14 minibuses cao (rounds up from 13.375) **A1**

(a) Answer: 14 minibuses

(b) correct multiplication of their answer to part (a) by 85 shown ft **M1**

(b) £1190 cao (ft from part (a)) **A1**

(b) Answer: £1190

Question 18

correct first stage of division shown, e.g. 8736 - 7200 = 1536 using 24 x 300 oe **M1**

correct completion of the division shown, e.g. 1536 / 24 = 64 **M1**

£364 cao **A1**

Answer: £364

Question 19

correct division set up, e.g. 4056 / 24 oe **M1**

correct method to complete the division shown, e.g. 24 x 100 = 2400, 4056 - 2400 = 1656, 1656 / 24 = 69 oe **M1**

169 cao **A1**

Answer: 169

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