



1.2D Multiplication and Division: Fluency and Exam Drill

EDEXCEL Edexcel 1MA1 · Calculator allowed · about 50 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

1 Work out 7×8 .

(Total for Question 1 is 1 mark)

2 Work out 12×6 .

(Total for Question 2 is 1 mark)

3 Work out 15×15 .

(Total for Question 3 is 1 mark)

4 Calculate 48×3 .

(Total for Question 4 is 1 mark)

5 Work out 23×4 .

(Total for Question 5 is 1 mark)

6 Calculate 125×8 .

(Total for Question 6 is 1 mark)

7 Work out 209×6 .

(Total for Question 7 is 2 marks)

8 Calculate 34×27 .

(Total for Question 8 is 2 marks)

9 Work out $432 \div 8$.

(Total for Question 9 is 1 mark)

10 Divide 997 by 9. Express your answer in three ways: (i) as a quotient with remainder, (ii) as a mixed number, (iii) as a decimal rounded to 3 decimal places.

(Total for Question 10 is 3 marks)

11 Calculate 486×23 using a written method.

(Total for Question 11 is 3 marks)

12 Use long division to work out $9876 \div 12$.

(Total for Question 12 is 3 marks)

- 13** A baker fills trays that hold 24 buns. She has 1864 buns. How many full trays can she fill and how many buns are left over?

(Total for Question 13 is 2 marks)

- 14** 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 14 is 2 marks)

- 15** A factory packs 4598 widgets into boxes holding 36 widgets each.
Part (a) How many full boxes are there and how many widgets are left over?
Part (b) If the factory needs enough boxes so that every widget is in a box (partial boxes allowed), how many boxes are needed in total?

(a) How many full boxes are there and how many widgets are left over? (2)

(b) How many boxes are needed so that every widget is in a box? (2)

(Total for Question 15 is 4 marks)

- 16** Work out $1234 \div 11$. Give the exact answer as a mixed number and as a recurring decimal.

(Total for Question 16 is 3 marks)

17 Calculate 732×45 using a written method.

(Total for Question 17 is 3 marks)

18 Work out $12345 \div 15$.

(Total for Question 18 is 2 marks)

19 Priya buys 48 packs of chocolate. Each pack costs £1.35. Work out the total cost. Give your answer in pounds and pence.

(Total for Question 19 is 2 marks)

Mark scheme · 1.2D Multiplication and Division: Fluency and Exam Drill

Question 1

- **B1** 56 cao
- **Answer:** 56

Question 2

- **B1** 72 cao
- **Answer:** 72

Question 3

- **B1** 225 cao
- **Answer:** 225

Question 4

- **B1** 144 cao
- **Answer:** 144

Question 5

- **B1** 92 cao
- **Answer:** 92

Question 6

- **B1** 1000 cao
- **Answer:** 1000

Question 7

- **M1** attempt to use long or column multiplication (e.g. 200×6 and 9×6 shown) oe
- **A1** 1254 cao
- **Answer:** 1254

Question 8

- **M1** correct method shown, e.g. 34×20 and 34×7 or column method with at least one correct partial product
- **A1** 918 cao
- **Answer:** 918

Question 9

- **B1** 54 cao
- **Answer:** 54

Question 10

- **M1** correct integer quotient and remainder identified, e.g. $997 = 9 \times 110 + 7$ or $110 \text{ r } 7$
- **A1** mixed number $110 \frac{7}{9}$ cao (ft from previous)
- **A1** decimal 110.778 cao (110.777... rounded to 3 dp)
- **Answer:** (i) $110 \text{ r } 7$; (ii) $110 \frac{7}{9}$; (iii) 110.778

Question 11

- **M1** correct first partial product, e.g. $486 \times 3 = 1458$ or equivalent shown
- **M1** correct second partial product, e.g. $486 \times 20 = 9720$ or equivalent shown
- **A1** 11178 cao
- **Answer:** 11178

Question 12

- **M1** correct stages of long division shown (e.g. subtract 9600 leaving 276 or equivalent)
- **M1** correct subsequent division step shown (e.g. $276 \div 12 = 23$)
- **A1** 823 cao
- **Answer: 823**

Question 13

- **M1** correct division method or statement showing $1864 \div 24 = 77$ remainder 16 or equivalent
- **A1** 77 full trays and 16 buns left over cao
- **Answer: 77 full trays, 16 buns left over**

Question 14

- **M1** convert map distance to real distance: $2.3 \times 50000 \text{ cm} = 115000 \text{ cm}$ and convert to km (or show $2.3 \times 500 = 1150 \text{ m}$)
- **A1** 1.15 km cao (given to 2 dp as 1.15 km)
- **Answer: 1.15 km**

Question 15

- (a) **M1** correct division showing $4598 \div 36 = 127$ remainder 26 or equivalent
- (a) **A1** 127 full boxes and 26 widgets left over cao
- (a) **Answer: 127 full boxes and 26 widgets left over**
- (b) **M1** recognise need to round up from 127 full boxes to include remainder
- (b) **A1** 128 boxes cao
- (b) **Answer: 128 boxes**

Question 16

- **M1** correct division showing $1234 = 11 \times 112 + 2$ or equivalent
- **A1** mixed number $112 \frac{2}{11}$ cao
- **A1** recurring decimal $112.18\ldots$ with 18 recurring, i.e. $112.(18)$ cao
- **Answer: $112 \frac{2}{11}$ and $112.(18)$**

Question 17

- **M1** correct first partial product, e.g. $732 \times 5 = 3660$ or equivalent shown
- **M1** correct second partial product, e.g. $732 \times 40 = 29280$ or equivalent shown
- **A1** 32940 cao
- **Answer: 32940**

Question 18

- **M1** evidence of correct division method or statement that $15 \times 823 = 12345$
- **A1** 823 cao
- **Answer: 823**

Question 19

- **M1** correct multiplication shown, e.g. 48×1.35 or equivalent
- **A1** £64.80 cao
- **Answer: £64.80**