# 3.6 Multiplication and Division: Formal Written Methods: Test Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** Multiply 48 by 6.

**(2)**

---

**2** Each box has 8 spaces. There are 226 eggs to carry.

What is the smallest number of boxes needed?

Answer: ___

**(2)**

---

**3** Work out 43 x 85.

Use a formal written method.

Answer: ___

**(2)**


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**4** Grace knows that 15 x 83 = 1,245.

Use this to work out 1,245 divided by 83.

Answer: ___

**(1)**

---

**5** 9714 x 2 =

Answer: ___

**(1)**

---

**6** Each minibus has 38 seats. There are 241 children to carry.

What is the smallest number of minibuses needed?

Answer: ___

**(2)**

---

**7** Explain your answer: If 256 activity packs are shared equally between 9 classes, will there be any packs left over? Show how you know.

**(3)**


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**8** Work out 2,688 divided by 24.

Use a formal written method.

Answer: ___

**(2)**

---

**9** A baker packs 125 cupcakes into boxes of 5. How many boxes does he need?

**(2)**

---

**10** Work out 2,128 divided by 28.

Use a formal written method.

Answer: ___

**(2)**

---

**11** Work out 959 x 43.

Use a formal written method.

Answer: ___

**(2)**


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**12** Tickets cost £8.09 each. Hassan buys 12 and pays with £100.

How much change does Hassan get?

Answer: £___

**(2)**

---

**13** Work out 1,209 divided by 39.

Use a formal written method.

Answer: ___

**(2)**

---

**14** Each minibus has 24 seats. There are 338 children to carry.

What is the smallest number of minibuses needed?

Answer: ___

**(2)**

---

**15** 3248 divided by 8 =

Answer: ___

**(1)**


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**16** Work out 1,084 divided by 3.

Give your answer as a mixed number in its simplest form.

Answer: ___

**(2)**

---

**17** 9344 x 5 =

Answer: ___

**(1)**

---

**18** Work out 56 x 76.

Use a formal written method.

Answer: ___

**(2)**

---

**19** 9769 x 3 =

Answer: ___

**(1)**

---

**20** A garden centre packs bulbs into bags of 9. They have 2,517 bulbs. How many full bags can they make and how many bulbs are left over?

**(2)**


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**21** 1383 divided by 3 =

Answer: ___

**(1)**

---

**22** Work out 1,967 divided by 4.

Give your answer as a mixed number in its simplest form.

Answer: ___

**(2)**

---

**23** Work out 8,680 divided by 9.

Give your answer as a whole number and a remainder.

Answer: ___

**(2)**

---

**24** 950 x 3 =

Answer: ___

**(1)**


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**25** Work out 12,892 divided by 44.

Use a formal written method.

Answer: ___

**(2)**

---

**26** Isla has 480 beads. Isla is given 886 more and then gives away 430.

How many beads does Isla have now?

Answer: ___

**(2)**


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# Mark scheme · 3.6 Multiplication and Division: Formal Written Methods: Test Pack

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

### Question 1

| | |
|---|---|
| Correct short multiplication method or partitioning (48 x 6 = (40+8) x 6) seen | M1 |
| 288 cao | A1 |

Answer: **288**

### Question 2

| | |
|---|---|
| 226 / 8 = 28 remainder 2 seen | M1 |
| 29 cao | A1 |

Answer: **29**

### Question 3

| | |
|---|---|
| a formal method with partial products and not more than one arithmetic error | M1 |
| 3,655 cao | A1 |

Answer: **3,655**

### Question 4

| | |
|---|---|
| 15 cao | B1 |

Answer: **15**

### Question 5

| | |
|---|---|
| 19428 cao | B1 |

Answer: **19428**

### Question 6

| | |
|---|---|
| 241 / 38 = 6 remainder 13 seen | M1 |
| 7 cao | A1 |

Answer: **7**

### Question 7

| | |
|---|---|
| Correct division attempt (256 ÷ 9) or use of digital sum reasoning to find remainder | M1 |
| Quotient 28 and remainder 4 or equivalent shown (28 r4) | A1 |
| Clear statement that 4 packs would be left over with supporting working | A1 |

Answer: **28 r4**

### Question 8

| | |
|---|---|
| a correct method of long division with not more than one error | M1 |
| 112 cao | A1 |

Answer: **112**

### Question 9

| | |
|---|---|
| Correct division method shown (125 ÷ 5) or grouping into fives | M1 |
| 25 cao | A1 |

Answer: **25**

### Question 10

| | |
|---|---|
| a correct method of long division with not more than one error | M1 |
| 76 cao | A1 |

Answer: **76**

### Question 11

| | |
|---|---|
| a formal method with partial products and not more than one arithmetic error | M1 |
| 41,237 cao | A1 |

Answer: **41,237**

### Question 12

| | |
|---|---|
| 8.09 x 12 = 97.08 seen | M1 |
| £2.92 cao | A1 |

Answer: **£2.92**

### Question 13

| | |
|---|---|
| a correct method of long division with not more than one error | M1 |
| 31 cao | A1 |

Answer: **31**

### Question 14

| | |
|---|---|
| 338 / 24 = 14 remainder 2 seen | M1 |
| 15 cao | A1 |

Answer: **15**

### Question 15

| | |
|---|---|
| 406 cao | B1 |

Answer: **406**

### Question 16

| | |
|---|---|
| short division method seen | M1 |
| 361 1/3 cao | A1 |

Answer: **361 1/3**

### Question 17

| | |
|---|---|
| 46720 cao | B1 |

Answer: **46720**

### Question 18

| | |
|---|---|
| a formal method with partial products and not more than one arithmetic error | M1 |
| 4,256 cao | A1 |

Answer: **4,256**


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## Question 19

| | |
|---|---|
| 29307 cao | B1 |

Answer: **29307**

## Question 20

| | |
|---|---|
| Correct division method shown (2,517 ÷ 9) or repeated subtraction | M1 |
| 279 r6 cao | A1 |

Answer: **279 r6**

## Question 21

| | |
|---|---|
| 461 cao | B1 |

Answer: **461**

## Question 22

| | |
|---|---|
| short division method seen | M1 |
| 491 3/4 cao | A1 |

Answer: **491 3/4**

## Question 23

| | |
|---|---|
| short division method seen | M1 |
| 964 remainder 4 cao | A1 |

Answer: **964 remainder 4**

## Question 24

| | |
|---|---|
| 2850 cao | B1 |

Answer: **2850**

## Question 25

| | |
|---|---|
| a correct method of long division with not more than one error | M1 |
| 293 cao | A1 |

Answer: **293**

## Question 26

| | |
|---|---|
| 1,366 seen | M1 |
| 936 cao | A1 |

Answer: **936**


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