3.6 Multiplication and Division: Formal Written Methods: 1-hour Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 47 x 87.

Use a formal written method.

Answer: ___

(2)

---

2 Bella knows that 69 x 67 = 4,623.

Use this to work out 4,623 divided by 67.

Answer: ___

(1)

---

3 Work out 8,251 divided by 9.

Give your answer as a whole number and a remainder.

Answer: ___

(2)

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4 2016 divided by 3 =

Answer: ___

(1)

---

5 Work out 2,315 × 14. Show your method.

(2)

---

6 Work out 2,196 x 29.

Use a formal written method.

Answer: ___

(2)

---

7 A coach holds 53 passengers. How many coaches do you need to carry 2,965 people? Show how you decided.

(2)

---

8 Work out 789 × 32 showing the columns or partitioning you use.

(2)

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9 A factory makes 4,125 widgets each day. How many widgets are made in 37 days? Show your method.

(3)

---

10 669 x 3 =

Answer: ___

(1)

---

11 Each box has 13 spaces. There are 400 eggs to carry.

What is the smallest number of boxes needed?

Answer: ___

(2)

---

12 Books cost £3.95 each. Hana buys 10.

How much does Hana pay?

Answer: £___

(1)

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13 Work out 229 x 63.

Use a formal written method.

Answer: ___

(2)

---

14 Work out 280 x 68.

Use a formal written method.

Answer: ___

(2)

---

15 Work out 9,587 x 88.

Use a formal written method.

Answer: ___

(2)

---

16 Mateo knows that 68 x 37 = 2,516.

Use this to work out 68 x 370.

Answer: ___

(1)

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17 414 divided by 6 =

Answer: ___

(1)

---

18 Work out 276 × 4 using formal written multiplication.

(2)

---

19 621 x 5 =

Answer: ___

(1)

---

20 1312 divided by 4 =

Answer: ___

(1)

---

21 Each minibus has 39 seats. There are 341 children to carry.

What is the smallest number of minibuses needed?

Answer: ___

(2)

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22 Work out 403 x 16.

Use a formal written method.

Answer: ___

(2)

---

23 Work out 9,857 x 42.

Use a formal written method.

Answer: ___

(2)

---

24 Priya has 4,872 marbles. Priya is given 985 more and then gives away 811.

How many marbles does Priya have now?

Answer: ___

(2)

---

25 Willow knows that 27 x 48 = 1,296.

Use this to work out 27 x 480.

Answer: ___

(1)

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26 Each taxi has 10 seats. There are 393 people to carry.

What is the smallest number of taxis needed?

Answer: ___

(2)

---

27 A teacher orders 38 packs of coloured pencils. Each pack contains 12 pencils. How many pencils are there in total?

(2)

---

28 Divide 961 by 3. Write the quotient and the remainder if there is one.

(2)

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Mark scheme · 3.6 Multiplication and Division: Formal Written Methods: 1-hour Pack

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

Question 1

a formal method with partial products and not more than one arithmetic error	M1
4,089 cao	A1

Answer: **4,089**

Question 2

69 cao	B1

Answer: **69**

Question 3

short division method seen	M1
916 remainder 7 cao	A1

Answer: **916 remainder 7**

Question 4

672 cao	B1

Answer: **672**

Question 5

Correct long multiplication or partitioning shown (2,315 x 14)	M1
32,410 cao	A1

Answer: **32410**

Question 6

a formal method with partial products and not more than one arithmetic error	M1
63,684 cao	A1

Answer: **63,684**

Question 7

Correct division and recognition to round up (2,965 ÷ 53)	M1
56 cao	A1

Answer: **56**

Question 8

Correct long multiplication or partitioning (789 x (30+2)) shown	M1
25,248 cao	A1

Answer: **25248**

Question 9

Correct long multiplication or partitioning shown (4,125 x 37 or x (30+7))	M1
Correct addition of partial products	M1
152,625 cao	A1

Answer: **152625**

Question 10

2007 cao	B1

Answer: **2007**

Question 11

400 / 13 = 30 remainder 10 seen	M1
31 cao	A1

Answer: **31**

Question 12

£39.50 cao	B1

Answer: **£39.50**

Question 13

a formal method with partial products and not more than one arithmetic error	M1
14,427 cao	A1

Answer: **14,427**

Question 14

a formal method with partial products and not more than one arithmetic error	M1
19,040 cao	A1

Answer: **19,040**

Question 15

a formal method with partial products and not more than one arithmetic error	M1
843,656 cao	A1

Answer: **843,656**

Question 16

25,160 cao	B1

Answer: **25,160**

Question 17

69 cao	B1

Answer: **69**

Question 18

Correct column multiplication shown (276 x 4) or equivalent partitioning	M1
1,104 cao	A1

Answer: **1104**

Question 19

3105 cao	B1

Answer: **3105**

Question 20

328 cao	B1

Answer: **328**

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Question 21

341 / 39 = 8 remainder 29 seen	M1
9 cao	A1

Answer: **9**

Question 22

a formal method with partial products and not more than one arithmetic error	M1
6,448 cao	A1

Answer: **6,448**

Question 23

a formal method with partial products and not more than one arithmetic error	M1
413,994 cao	A1

Answer: **413,994**

Question 24

5,857 seen	M1
5,046 cao	A1

Answer: **5,046**

Question 25

12,960 cao	B1

Answer: **12,960**

Question 26

393 / 10 = 39 remainder 3 seen	M1
40 cao	A1

Answer: **40**

Question 27

Correct multiplication method shown (38 x 12 or 38 x (10+2))	M1
456 cao	A1

Answer: **456**

Question 28

Correct short division method shown (961 ÷ 3) or chunking	M1
320 r1 cao	A1

Answer: **320 r1**

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