3.6 Multiplication and Division: Formal Written Methods: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 755 x 19.

Use a formal written method.

Answer: ___

(2)

---

2 Work out 504 divided by 14.

Use a formal written method.

Answer: ___

(2)

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3 Priya has 7,770 marbles. Priya is given 3,401 more and then gives away 4,036.

How many marbles does Priya have now?

Answer: ___

(2)

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4 Work out 2,865 x 61.

Use a formal written method.

Answer: ___

(2)

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5 Each taxi has 25 seats. There are 167 people to carry.

What is the smallest number of taxis needed?

Answer: ___

(2)

---

6 A charity packs tins into crates of 18. They have 14,976 tins. How many full crates can they fill?

(2)

---

7 408 divided by 3 =

Answer: ___

(1)

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8 Each minibus has 47 seats. There are 262 children to carry.

What is the smallest number of minibuses needed?

Answer: ___

(2)

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9 Each box has 41 spaces. There are 174 eggs to carry.

What is the smallest number of boxes needed?

Answer: ___

(2)

---

10 Work out 5,631 divided by 7.

Give your answer as a whole number and a remainder.

Answer: ___

(2)

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11 Explain your answer: Is 4,032 divisible by 8? Show working to support your answer.

(3)

12 Divide 7,204 by 6. Give the quotient and remainder if any.

(2)

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Mark scheme · 3.6 Multiplication and Division: Formal Written Methods: 30-minute 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
14,345 cao	A1

Answer: **14,345**

Question 2

a correct method of long division with not more than one error	M1
36 cao	A1

Answer: **36**

Question 3

11,171 seen	M1
7,135 cao	A1

Answer: **7,135**

Question 4

a formal method with partial products and not more than one arithmetic error	M1
174,765 cao	A1

Answer: **174,765**

Question 5

167 / 25 = 6 remainder 17 seen	M1
7 cao	A1

Answer: **7**

Question 6

Correct division method shown (14,976 ÷ 18) or grouping	M1
832 cao	A1

Answer: **832**

Question 7

136 cao	B1

Answer: **136**

Question 8

262 / 47 = 5 remainder 27 seen	M1
6 cao	A1

Answer: **6**

Question 9

174 / 41 = 4 remainder 10 seen	M1
5 cao	A1

Answer: **5**

Question 10

short division method seen	M1
804 remainder 3 cao	A1

Answer: **804 remainder 3**

Question 11

Shows a correct divisibility check for 8 (last three digits 032 or dividing last three digits by 8) or performs short division	M1
Correct result that 4,032 ÷ 8 = 504 or equivalent cao	A1
A clear statement that 4,032 is divisible by 8, with supporting working oe	A1

Answer: **Yes. 4,032 ÷ 8 = 504**

Question 12

Correct short division or chunking shown (7,204 ÷ 6)	M1
1,200 r4 cao	A1

Answer: **1200 r4**

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