3.2 Written Methods: Multiplication and Division: 30-minute Pack

NCETM KS2 National Curriculum Mathematics - NCETM Calculation Policy and Written Methods Progression · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Use the formal written method (short multiplication) to calculate 123 x 4.

(2)

2 Use short division to calculate 96 divided by 4.

(1)

3 Use short division to calculate 77 divided by 5, giving your answer with a remainder.

(2)

4 Each tray has 16 spaces. There are 232 cakes to carry.

What is the smallest number of trays needed?

Answer: ___

(2)

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5 Plants cost £1.38 each. Kofi buys 7.

How much does Kofi pay?

Answer: £___

(2)

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6 A bag weighs 8.6 kg. How many kg are there in 8 bags?

Answer: ___ kg

(1)

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7 Work out 471 x 59.

Use a formal written method.

Answer: ___

(2)

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8 Work out 7,084 divided by 28.

Use a formal written method.

Answer: ___

(2)

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9 Use the formal written method for long division to calculate 900 divided by 35, giving your answer with a remainder.

(4)

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10 Ribbon costs £3.45 per metre. Use a formal written method to calculate the cost of 8 metres of ribbon.

(3)

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11 Use the formal written method (long multiplication) to calculate 137 x 24.

(3)

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Mark scheme · 3.2 Written Methods: Multiplication and Division: 30-minute Pack

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

Question 1

correct method shown, e.g. carrying or partitioning 123 x 4 oe	M1
492 cao	A1

Answer: **492**

Question 2

24 cao	B1

Answer: **24**

Question 3

correct division working shown, e.g. 5 x 15 = 75 oe	M1
15 r 2 oe cao	A1

Answer: **15 r 2**

Question 4

232 / 16 = 14 remainder 8 seen	M1
15 cao	A1

Answer: **15**

Question 5

1.38 x 7 method seen	M1
£9.66 cao	A1

Answer: **£9.66**

Question 6

68.8 kg cao	B1

Answer: **68.8 kg**

Question 7

a formal method with partial products and not more than one arithmetic error	M1
27,789 cao	A1

Answer: **27,789**

Question 8

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

Answer: **253**

Question 9

35 x 20 = 700 oe	M1
35 x 5 = 175, running total 875 oe	M1
correct remainder identified, 900 - 875 = 25 oe	M1
25 r 25 oe cao	A1

Answer: **25 r 25**

Question 10

345 x 8 = 2760 oe (ignoring the decimal point)	M1
correct decimal place value adjustment shown, e.g. dividing by 100 oe	M1
£27.60 cao	A1

Answer: **£27.60**

Question 11

one correct partial product, e.g. 137 x 20 = 2740 oe	M1
second correct partial product, e.g. 137 x 4 = 548 oe	M1
3288 cao	A1

Answer: **3288**

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