

WA4MNAMU2

Calculating with number

Core + Challenge

2-Digit × 1-Digit Multiplication — With Regrouping

I can multiply a 2-digit number by a 1-digit number using the formal written (column) method, including regrouping (carrying).

Name: _____ Date: _____ Score: / 53

Key idea

Column multiplication with regrouping: multiply the ones digit first. If the result is 10 or more, write the ones digit and carry the tens into the tens column, then multiply the tens digit and add the carried amount.

E.g. 47×6 : ones — $7 \times 6 = 42$, write 2, carry 4. Tens — $4 \times 6 = 24$, plus the carried 4 = 28 → **282**.

A Fluency *practise the skill*

/16 marks

Use the column (vertical) multiplication method in your working space for each problem. Every problem needs regrouping (carrying) in the ones column.

1. $47 \times 6 = ?$ _____

2. $38 \times 7 = ?$ _____

3. $56 \times 4 = ?$ _____

4. $29 \times 8 = ?$ _____

5. $64 \times 5 = ?$ _____

6. $73 \times 6 = ?$ _____

7. $85 \times 3 = ?$ _____

8. $46 \times 9 = ?$ _____

9. $58 \times 7 = ?$ _____

10. $67 \times 4 = ?$ _____

11. $39 \times 8 = ?$ _____

12. $92 \times 6 = ?$ _____

13. $84 \times 5 = ?$ _____

14. $57 \times 9 = ?$ _____

15. $68 \times 7 = ?$ _____

16. $49 \times 6 = ?$ _____

B Core *apply the skill to problems*

/21 marks

1

A box contains 36 oranges. How many oranges are in 7 boxes?

[3 marks]

Answer: _____

2-Digit $\times$ 1-Digit Multiplication — With Regrouping · WA4MNAMU2

2

A school buys 8 packs of pencils, with 24 pencils in each pack. If 19 pencils are then given away to a neighbouring school, how many pencils are left?

[4 marks]

Answer: _____

3

A theatre has 45 seats in each row. How many seats are there in 6 rows?

[3 marks]

Answer: _____

4

A baker makes 9 trays of muffins, with 18 muffins on each tray. She sells 150 muffins. How many muffins are left?

[4 marks]

Answer: _____

5

A factory produces 57 toys per hour. How many toys does it produce in 8 hours?

[3 marks]

Answer: _____

6

A charity packs 7 boxes with 48 cans of food in each box, then adds another 25 cans in a separate box. How many cans of food are there in total?

[4 marks]

Answer: _____

C

Reasoning *explain, justify and check*

/9 marks

2-Digit $\times$ 1-Digit Multiplication — With Regrouping · WA4MNUMU2

1

Explain why, when multiplying a 2-digit number by a 1-digit number, we sometimes need to 'carry' into the tens or hundreds column.

[2 marks]

2

Explain how you could use partitioning (splitting 47 into 40 and 7) to work out 47×6 without the written column method.

[2 marks]

3

Priya multiplies 38×7 and gets 216. Use estimation to show her answer is wrong, then find her likely mistake.

[2 marks]

4

A student says that multiplying a 2-digit number by a 1-digit number always gives a 3-digit answer. Is this true? Explain and give an example that supports your answer.

[3 marks]

D

Challenge *multi-step and problem-solving*

/7 marks

1

Find a 2-digit number that, when multiplied by 6, gives an answer between 300 and 310. Show the multiplication.

[2 marks]

Answer: _____

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2

The product of a 2-digit number and 7 is 441. What is the 2-digit number?

[2 marks]

Answer: _____

3

A stadium block (Block A) has 7 rows of 68 seats. Block B has one fewer row than Block A, but each row in Block B holds 9 more seats than a Block A row. Which block has more seats, and by how many?

[3 marks]

Answer: _____

How did I go?

Fluency ____/16 Core ____/21 Reasoning ____/9 Challenge ____/7 **Total ____/53**

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