MATH

2-digit by 1-digit multiplication

Name _____ Date _____

I can multiply a 2-digit number by a 1-digit number.

1 How it works

Split the 2-digit number into tens and ones. For 23 × 4: 20 × 4 = 80 and 3 × 4 = 12, so 23 × 4 = 80 + 12 = 92.

	20	3
4	20 × 4 = 80	3 × 4 = 12

23 × 4 = 92

2 Fill in the area model. Add the parts.

28 × 6

	20	8
6		

= ☐

86 × 5

	80	6
5		

= ☐

13 × 3

	10	3
3		

= ☐

How did I do? ☆ ☆ ☆

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Multiply in columns

Name _____ Date _____

I can multiply using the standard method.

1 Multiply. Carry when you need to.

Start with the ones.

15 × 2	77 × 8	19 × 9	62 × 3
23 × 3	57 × 9	51 × 8	41 × 7
94 × 9	22 × 7	87 × 3	14 × 9

How did I do? ☆ ☆ ☆

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Estimate, then solve

Name _____ Date _____

I can estimate first to check that my answer makes sense.

1 Round, estimate, then find the exact answer

Round to the biggest place.

Problem	Estimate	Exact answer
38 × 6		
55 × 2		
63 × 8		
33 × 7		
51 × 3		
94 × 3		

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use multiplication to solve problems.

1 Read, think, answer

Estimate first, then solve.

1 Each shelf holds 57 books. How many books fit on 7 shelves?

Answer:

2 Sam's class goes on a trip in 7 buses with 37 children each. How many children?

Answer:

3 A farm packs eggs in cartons of 12. How many eggs are in 57 cartons?

Answer:

4 Sara walks 47 steps to the mailbox and back, 4 times a week. How many steps?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: 2-digit by 1-digit multiplication

1 Page 1

Area models: 28 × 6 = 120 + 48 = 168; 86 × 5 = 400 + 30 = 430; 13 × 3 = 30 + 9 = 39.

2 Page 2

Columns: 15 × 2 = 30, 77 × 8 = 616, 19 × 9 = 171, 62 × 3 = 186, 23 × 3 = 69, 57 × 9 = 513, 51 × 8 = 408, 41 × 7 = 287, 94 × 9 = 846, 22 × 7 = 154, 87 × 3 = 261, 14 × 9 = 126.

3 Page 3

Estimates and answers: 38 × 6: about 40 × 6 = 240; exact 228; 55 × 2: about 60 × 2 = 120; exact 110; 63 × 8: about 60 × 8 = 480; exact 504; 33 × 7: about 30 × 7 = 210; exact 231; 51 × 3: about 50 × 3 = 150; exact 153; 94 × 3: about 90 × 3 = 270; exact 282.

4 Page 4: word problems

1) 399
2) 259
3) 684
4) 188

5 Teaching tip

Start with the area model, then show the same partial products in columns. When children see both side by side, carrying makes sense.

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