MATH

2-digit by 2-digit multiplication

Name _____ Date _____

I can multiply two 2-digit numbers.

1 How it works

Split both numbers by place value and multiply every part: 23 × 14 = 20 × 10 + 20 × 4 + 3 × 10 + 3 × 4 = 200 + 80 + 30 + 12 = 322.

	20	3
10	20 × 10 = 200	3 × 10 = 30
4	20 × 4 = 80	3 × 4 = 12

23 × 14 = 322

2 Fill in the area model. Add the parts.

84 × 14

	80	4
10		
4		

= ☐

21 × 22

	20	1
20		
2		

= ☐

How did I do? ☆ ☆ ☆

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Multiply in columns

Name _____ Date _____

I can multiply 2-digit numbers using partial products.

1 Multiply. Carry when you need to.

Multiply by the ones, then the tens, then add.

21 × 44	79 × 47	25 × 19
77 × 24	76 × 27	61 × 21

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
56 × 49		
14 × 48		
81 × 47		
57 × 41		
37 × 42		
34 × 43		

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 A school has 18 classrooms with 44 desks in each. How many desks?

Answer:

2 A store has 24 boxes of eggs with 12 eggs in each. How many eggs?

Answer:

3 Omar's team rides 44 miles to a game, 18 times this season. How many miles?

Answer:

4 There are 52 weeks in a year. How many days is 52 weeks?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: 2-digit by 2-digit multiplication

1 Page 1

Area models: 84 × 14 = 800 + 320 + 40 + 16 = 1,176; 21 × 22 = 400 + 40 + 20 + 2 = 462.

2 Page 2

Columns: 21 × 44 = 924, 79 × 47 = 3,713, 25 × 19 = 475, 77 × 24 = 1,848, 76 × 27 = 2,052, 61 × 21 = 1,281.

3 Page 3

Estimates and answers: 56 × 49: about 60 × 50 = 3,000; exact 2,744; 14 × 48: about 10 × 50 = 500; exact 672; 81 × 47: about 80 × 50 = 4,000; exact 3,807; 57 × 41: about 60 × 40 = 2,400; exact 2,337; 37 × 42: about 40 × 40 = 1,600; exact 1,554; 34 × 43: about 30 × 40 = 1,200; exact 1,462.

4 Page 4: word problems

1) 792
2) 288
3) 792 miles
4) 364 days (52 × 7)

5 Teaching tip

In columns, the second row starts with a zero because you are multiplying by tens. Saying "now multiply by the 10, not the 1" helps it stick.

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