MATH

3-digit by 1-digit multiplication

Name _____ Date _____

I can multiply a 3-digit number by a 1-digit number.

1 How it works

Multiply the ones, then the tens, then the hundreds, carrying when a product is 10 or more. For 214 × 3: 4 × 3 = 12, write 2 and carry 1, and so on.

	200	10	4
3	200 × 3 = 600	10 × 3 = 30	4 × 3 = 12

214 × 3 = 642

2 Fill in the area model. Add the parts.

699 × 2

	600	90	9	
2				=

394 × 6

	300	90	4	
6				=

305 × 5

	300	5	
5			=

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.

432 × 2	251 × 8	828 × 9	193 × 6
561 × 8	558 × 9	646 × 2	661 × 8
556 × 4	555 × 8	821 × 5	368 × 2

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
265 × 2		
778 × 8		
106 × 7		
361 × 2		
857 × 2		
411 × 2		

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 plane flies 265 miles each day. How far does it fly in 3 days?

Answer:

2 A library buys 3 boxes of 165 books. How many books is that?

Answer:

3 Aisha reads 125 pages a week. How many pages in 6 weeks?

Answer:

4 A bakery makes 248 cookies a day. How many in 5 days?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: 3-digit by 1-digit multiplication

1 Page 1

Area models: 699 × 2 = 1,200 + 180 + 18 = 1,398; 394 × 6 = 1,800 + 540 + 24 = 2,364; 305 × 5 = 1,500 + 25 = 1,525.

2 Page 2

Columns: 432 × 2 = 864, 251 × 8 = 2,008, 828 × 9 = 7,452, 193 × 6 = 1,158, 561 × 8 = 4,488, 558 × 9 = 5,022, 646 × 2 = 1,292, 661 × 8 = 5,288, 556 × 4 = 2,224, 555 × 8 = 4,440, 821 × 5 = 4,105, 368 × 2 = 736.

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Estimates and answers: 265 × 2: about 300 × 2 = 600; exact 530; 778 × 8: about 800 × 8 = 6,400; exact 6,224; 106 × 7: about 100 × 7 = 700; exact 742; 361 × 2: about 400 × 2 = 800; exact 722; 857 × 2: about 900 × 2 = 1,800; exact 1,714; 411 × 2: about 400 × 2 = 800; exact 822.

4 Page 4: word problems

1) 795 miles
2) 495
3) 750
4) 1,240

5 Teaching tip

Have children estimate first: 214 × 3 is about 200 × 3 = 600. Most carrying mistakes give answers far from the estimate.

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