

Name \_\_\_\_\_

**Lesson**  
**8.1**

**Extra Practice**

1. Use the multiplication table.

Look at the shaded products.  
Describe the pattern.

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

.....  
Look at the factors of the shaded products that are the same. What do you notice?

.....  
What property explains this pattern?

.....  
What do you notice about the factors of the shaded product that does not repeat? Explain why you think this happens.

.....  
Shade a different diagonal in the table that shows a similar pattern as the shaded products.

2. Newton says the product of a number and 5 is double the product of that same number and 2. Is he correct? Explain.



×	1	2	3	4	5	6	7	8
1	1	2	3	4	5	6	7	8
2	2	4	6	8	10	12	14	16
3	3	6	9	12	15	18	21	24
4	4	8	12	16	20	24	28	32

3. A 30-pound giant pumpkin gains the same number of pounds each day. The multiplication table shows how many pounds the pumpkin gains after 2 days, 4 days, and 6 days. How many pounds does the pumpkin gain each day?

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

How much does the pumpkin weigh after 6 days?

If the pumpkin continues to gain the same number of pounds each day, how much will the pumpkin weigh after 7 days?

Another giant pumpkin gains 12 pounds in 2 days, and 24 pounds in 4 days. How many pounds does the pumpkin gain each day?

Name \_\_\_\_\_

**Lesson 8.2** Extra Practice

Use the multiplication table.

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

1.  $3 \times 4 =$  \_\_\_\_\_

\_\_\_\_\_

2.  $8 \times 8 =$  \_\_\_\_\_

\_\_\_\_\_

3.  $6 \times 9 =$  \_\_\_\_\_

\_\_\_\_\_

4.  $35 \div 5 =$  \_\_\_\_\_

$5 \times$  \_\_\_\_\_  $= 35$

\_\_\_\_\_

5.  $24 \div 6 =$  \_\_\_\_\_

$6 \times$  \_\_\_\_\_  $= 24$

\_\_\_\_\_

6.  $63 \div 9 =$  \_\_\_\_\_

$9 \times$  \_\_\_\_\_  $= 63$

\_\_\_\_\_

7.  $15 \div 3 =$  \_\_\_\_\_

$3 \times$  \_\_\_\_\_  $= 15$

\_\_\_\_\_

8.  $80 \div 10 =$  \_\_\_\_\_

$10 \times$  \_\_\_\_\_  $= 80$

\_\_\_\_\_

9.  $42 \div 7 =$  \_\_\_\_\_

$7 \times$  \_\_\_\_\_  $= 42$

\_\_\_\_\_

Write the related multiplication or division equation. Then use the multiplication table to complete the related facts.

10.  $16 \div 8 =$  \_\_\_\_\_

\_\_\_\_\_

11.  $21 \div 3 =$  \_\_\_\_\_

\_\_\_\_\_

12.  $25 \div 5 =$  \_\_\_\_\_

\_\_\_\_\_

13.  $56 \div 7 =$  \_\_\_\_\_

\_\_\_\_\_

14.  $36 \div 9 =$  \_\_\_\_\_

\_\_\_\_\_

15.  $60 \div 6 =$  \_\_\_\_\_

\_\_\_\_\_

16.  $5 \times 7 =$  \_\_\_\_\_

\_\_\_\_\_

17.  $8 \times 6 =$  \_\_\_\_\_

\_\_\_\_\_

18.  $9 \times 8 =$  \_\_\_\_\_

\_\_\_\_\_

19. Newton says that  $18 \times 2 = 9$ . Is he correct? Explain.

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20. Explain how to use the multiplication table to solve  $5 \times 4 = \underline{\hspace{2cm}}$ .

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21. There are 18 sweaters arranged in 6 equal rows. How many columns of sweaters are there?

---

22. Newton plants 40 rose bushes in 10 equal rows. How many columns of rose bushes are there?

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23. There are 30 muffins divided equally among 2 oven trays. There are 3 rows of muffins on each tray. How many columns are on each tray?

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24. There are 27 dinner rolls divided equally among 3 oven trays. There are 3 rows of dinner rolls on each tray. How many columns are on each tray?

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**Lesson 8.3** Extra Practice

Complete the table.

1.

×	2	3	<input type="text"/>
<input type="text"/>	2		
4			16
8			32

2.

×	<input type="text"/>	<input type="text"/>	8
2		12	
3	15		
<input type="text"/>			40

3.

×	1	7	<input type="text"/>
6			54
7			
<input type="text"/>	9		
<input type="text"/>		70	

4.

×	2	4	<input type="text"/>
<input type="text"/>	6		
<input type="text"/>	12		36
9			
10			

5.

×	<input type="text"/>	5	<input type="text"/>
2	6		
<input type="text"/>		25	
6			48
<input type="text"/>	21		
9			

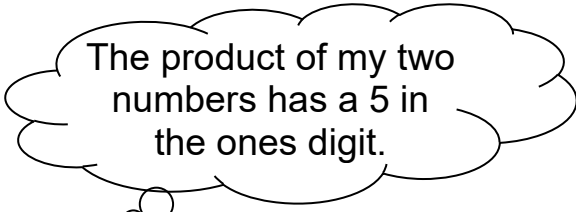
6.

×	7	<input type="text"/>	<input type="text"/>
3		27	
4			40
<input type="text"/>	49		
<input type="text"/>		72	
<input type="text"/>			100

7. Explain two ways you can find the missing factor.

×	<input type="text"/>
6	54

8. Are Newton's two numbers even or odd? Explain.



- even and odd
- both even
- both odd

9. You make salads for a picnic. Complete the table to find how many of each ingredient you need for the given number of bowls.

		Number of Bowls			
		1	3	<input type="text"/>	8
Ingredient	Lettuce leaves				48
	Tomatoes		21		
	Cucumber slices	5			
	Croutons	8		32	

You also want to put 2 pieces of avocado in each salad bowl.  
Draw and complete the additional row in the table.

You also want to put 3 pieces of chicken in each salad bowl.  
Draw and complete the additional row in the table.

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**Lesson**  
**8.4**

**Extra Practice**

1. There are 6 rows of tulips with 5 tulips in each row. How many tulips are there?

- 
2. Descartes has 40 carrot sticks. He puts them in bags, with 8 carrot sticks in each bag. How many bags does he use?

- 
3. You have 27 sweaters. You want to put them into boxes, with 3 sweaters in each box. How many boxes do you use?

4. A store has 60 shoes arranged into 6 equal rows. How many shoes are in each row?

- 
5. You buy a package of water bottles. There are 8 rows with 6 in each row. You give away 6 of them. How many water bottles do you have left?

- 
6. Newton has a tray of bagels. There are 5 rows, with 5 in each row. He gives 9 of them to Descartes. How many bagels does Newton have left?

- 
7. Descartes has 3 tubes of tennis balls. There are 4 tennis balls in each tube. Newton gives Descartes 7 more tennis balls. How many tennis balls does Descartes have in all?



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**Chapter  
8**

**Test Prep**

1. Complete the statement to tell what property explains the pattern shown by the shaded products in the multiplication table.

The pattern is explained by

- the
- (A) Associative Property
  - (B) Commutative Property
  - (C) Distributive Property

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

- 
2. Two related facts from a multiplication table are shown.

$$36 \div 6 = \underline{\quad}$$

$$6 \times \underline{\quad} = 36$$

What number completes the equations?

- 
3. There are 12 people at a campsite. There are 4 people in each tent. How many tents are there?

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**Test Prep** (continued)

4. Complete the table.

<b>×</b>	<b>2</b>	_____	<b>10</b>
<b>4</b>	_____	20	_____
_____	12	30	_____
<b>10</b>	_____	_____	_____

5. Which equation does *not* belong with the other three?

Ⓐ  $8 \times 3 = 24$

Ⓑ  $24 \div 3 = 8$

Ⓒ  $24 \div 8 = 3$

Ⓓ  $4 \times 6 = 24$

---

6. The product of two numbers has a 1 in the ones digit. Complete the statement to tell if the two numbers are odd or even.

The two numbers are \_\_\_\_\_.

Ⓐ even and odd

Ⓑ both even

Ⓒ both odd

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7. The 12 boys and 15 girls in a class are divided into teams for a game. There are 3 students on each team. How many teams are there?

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**Chapter**  
**8**

**Test Prep** (continued)

8. You make bags of trail mix.  
Complete the table to find  
how many of each  
ingredient you need for  
the given number of bags.

		Number of Bags			
		1	2	—	6
Ingredient	Peanuts	—	20	—	—
	Raisins	9	—	—	—
	Almonds	—	—	—	24
	Walnuts	3	—	12	—

9. You rearrange the counters into groups of 9. How many groups do you make?

