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enVision Math 5.1 – Patterns for Multiplication Facts Practice

Use the multiplication table shown at the right.

1. Look at the shaded products. What pattern do you see?

×	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

2. Write the equation for each shaded product.

3. Look at the factors you wrote. Use a property to explain why the pattern for the products is true.

4. Shade a line in the multiplication table to show how this pattern is true for other products.

enVision Math 5.1 – Patterns for Multiplication Facts Practice
Answer Key

Use the multiplication table shown at the right.
Sample answers given.

×	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

1. Look at the shaded products. What pattern do you see?

   Each product is equal to the factor that is multiplied by 1.

2. Write the equation for each shaded product.

   $0 \times 1 = 0$; $1 \times 1 = 1$; $2 \times 1 = 2$; $3 \times 1 = 3$; $4 \times 1 = 4$; $5 \times 1 = 5$;
   $6 \times 1 = 6$; $7 \times 1 = 7$; $8 \times 1 = 8$; $9 \times 1 = 9$; $10 \times 1 = 10$;

3. Look at the factors you wrote. Use a property to explain why the pattern for the products is true.

   According to the Identity Property of Addition, any factor multiplied by 1 is equal to that factor.

4. Shade a line in the multiplication table to show how this pattern is true for other products.

   See table.

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enVision Math 5.2 – Use a Table to Multiply and Divide Practice

Find the missing factors and products.

1.

×	□	5	□
3			
□		35	
5	10		45
□		20	

2.

×	□	□	6
7	21		
□			54
4		28	
□			30

3.

×	□	□	8
4	12		
□			64
2	6	18	
□			40

4.

×	□	4	8
6	12		42
□		16	
□	14		

enVision Math 5.2 – Use a Table to Multiply and Divide Practice
Answer Key

Find the missing factors and products.

1.

×	2	5	9
3	6	15	27
7	14	35	63
5	10	25	45
4	8	20	36

2.

×	3	7	6
7	21	49	42
9	27	63	54
4	12	28	24
5	15	35	30

3.

×	3	9	8
4	12	36	32
8	24	72	64
2	6	18	16
5	15	45	40

4.

×	2	4	8
6	12	24	42
4	8	16	32
7	14	28	56

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enVision Math 5.3 - Use Strategies to Multiply Practice

Use strategies to find the product.

1. _____ = 3 × 3

2. 9 × 6 = _____

3. _____ = 4 × 7

4. 6 × 5 = _____

5. _____ = 8 × 3

6. 5 × 10 = _____

7. $\begin{array}{r} 1 \\ \times\ 2 \\ \hline \end{array}$

8. $\begin{array}{r} 7 \\ \times\ 6 \\ \hline \end{array}$

9. $\begin{array}{r} 9 \\ \times\ 3 \\ \hline \end{array}$

10. $\begin{array}{r} 0 \\ \times\ 8 \\ \hline \end{array}$

11. $\begin{array}{r} 5 \\ \times\ 4 \\ \hline \end{array}$

12. $\begin{array}{r} 8 \\ \times\ 9 \\ \hline \end{array}$

13. What is 5 × 2? _____

14. What is 4 × 8? _____

15. What is 10 × 3? _____

16. What is 2 × 9? _____

enVision Math 5.3 – Use Strategies to Multiply Practice
Answer Key

Use strategies to find the product.

1. 9 = 3 × 3

2. 9 × 6 = 54

3. 28 = 4 × 7

4. 6 × 5 = 30

5. 24 = 8 × 3

6. 5 × 10 = 50

7. 1 × 2 = 2

8. 7 × 6 = 42

9. 9 × 3 = 27

10. 0 × 8 = 0

11. 5 × 4 = 20

12. 8 × 9 = 72

13. What is 5 × 2? 10

14. What is 4 × 8? 32

15. What is 10 × 3? 30

16. What is 2 × 9? 18

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enVision Math 5.4 – Solve Word Problems: Multiplication and Division Facts Practice

Draw a bar diagram to represent the problem. Then solve.

1. There are 6 books on a shelf. There are 42 books. How many shelves are there?

2. There are 5 pizzas. Each pizza has 8 slices. How many slices are there?

Write an equation with an unknown to represent the problem. Then solve.

3. Mr. Thomas stacks 24 quarters. Each stack has 4 quarters. How many stacks does Mr. Thomas make?

4. Jenny sells 4 t-shirts each month. She sells 5 sweatshirts each month. How many total shirts does she sell in 3 months?

enVision Math 5.4 – Solve Word Problems: Multiplication and Division Facts Practice

Draw a bar diagram to represent the problem. Then solve.
Check diagrams.

1. There are 6 books on a shelf. There are 42 books. How many shelves are there?

   42 ÷ 6 = 7 shelves

2. There are 5 pizzas. Each pizza has 8 slices. How many slices are there?

   5 × 8 = 40 slices

Write an equation with an unknown to represent the problem. Then solve.

3. Mr. Thomas stacks 24 quarters. Each stack has 4 quarters. How many stacks does Mr. Thomas make?

   24 ÷ 4 = ?; 24 ÷ 4 = 6;
   6 stacks

4. Jenny sells 4 t-shirts each month. She sells 5 sweatshirts each month. How many total shirts does she sell in 3 months?

   4 + 5 = 9; 9 × 3 = ?;
   9 × 3 = 27; 27 shirts

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enVision Math 5.5 - Write Multiplication and Division Math Stories Practice

Write a story for each equation. Then solve.

1. 4 × 7 = _____

2. 3 × 3 = _____

3. 12 ÷ 4 = _____

I will write about 12 _____.
I will put them in 4 equal groups.

4. 18 ÷ _____ = 2

I will write about 18 _____.
I will put them in groups of 2.

enVision Math 5.5 – Write Multiplication and Division Math Stories Practice

Answer Key

Write a story for each equation. Then solve.

1. $4 \times 7 =$ 28

Check for stories about 4 groups of 7.

2. $3 \times 3 =$ 9

Check for stories about 3 groups of 3.

3. $12 \div 4 =$ 3

I will write about 12 _____.
I will put them in 4 equal groups.

Check students' stories.

4. $18 \div$ 9 $= 2$

I will write about 18 _____.
I will put them in groups of 2.

Check students' stories.

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enVision Math 5.6 – Look for and Use Structure Practice

Carla has saved $8 each week for 5 weeks. Mark has saved $6 each week for 8 weeks. These expressions show how they saved.

$5 \times \$8 \bigcirc 9 \times \$6$

1. Look at the expressions. Explain how you can use what you see to compare with computing.

2. Who saved more money? Write the correct symbol >, <, or = in the circle above.

3. Can you use the same symbol you wrote in **2** to compare $\$8 \times 5$ and $\$6 \times 8$? Explain.

enVision Math 5.6 – Look for and Use Structure Practice
Answer Key

Carla has saved $8 each week for 5 weeks. Mark has saved $6 each week for 8 weeks. These expressions show how they saved.

$5 \times \$8 \bigcirc 8 \times \$6$

1. Look at the expressions. Explain how you can use what you see to compare with computing.

   Sample answer: Both expressions have 8 as a factor. I can change the order of the factors to 5 × 8 and 6 × 8. I know that 5 groups of 8 is less than 6 groups of 8.

2. Who saved more money? Write the correct symbol >, <, or = in the circle above.

   Mark. Students should write a < symbol in the circle above.

3. Can you use the same symbol you wrote in **2** to compare $8 × 5 and $6 × 8? Explain.

   Yes; Sample answer: All that has changed is the order of the factors. The value stays the same, so the same symbol can be used.