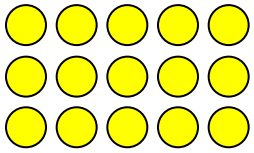
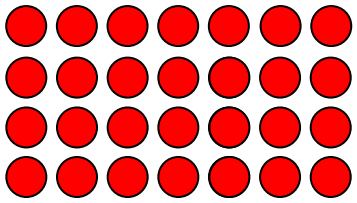
Name _____ # ____ Date _____

enVision Math 3.1 – The Distributive Property Practice

Separate the rows in the large array into two smaller arrays. Write the new facts.

1. 

$3 \times 5 = (\_\_\_ \times \_\_\_) + (\_\_\_ \times \_\_\_)$

2. 

$4 \times 7 = (\_\_\_ \times \_\_\_) + (\_\_\_ \times \_\_\_)$

Use the Distributive Property to find each missing factor. Use counters and arrays to help.

3. $4 \times 8 = (3 \times \_\_\_) + (1 \times 8)$

4. $6 \times 5 = (\_\_\_ \times 5) + (2 \times 5)$

5. $(\_\_\_ \times 9) = (1 \times 9) + (2 \times \_\_\_)$

6. $(10 \times \_\_\_) = (5 \times 7) + (\_\_\_ \times 7)$

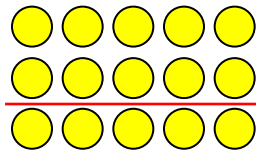
7. $(5 \times \_\_\_) = (4 \times 6) + (\_\_\_ \times 6)$

8. $(8 \times \_\_\_) = (\_\_\_ \times 2) + (6 \times 2)$

enVision Math 3.1 – The Distributive Property Practice

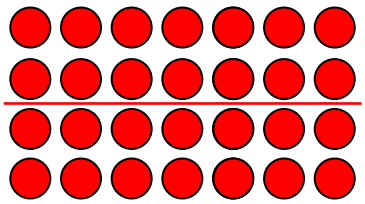
Answer Key

Separate the rows in the large array into two smaller arrays. Write the new facts.

1. 

$3 \times 5 = (\_\_\_ \times \_\_\_) + (\_\_\_ \times \_\_\_)$

Sample answer: $(2 \times 5) + (1 \times 5)$

2. 

$4 \times 7 = (\_\_\_ \times \_\_\_) + (\_\_\_ \times \_\_\_)$

Sample answer: $(2 \times 7) + (2 \times 7)$

Use the Distributive Property to find each missing factor. Use counters and arrays to help.

3. $4 \times 8 = (3 \times \underline{8}) + (1 \times 8)$

4. $6 \times 5 = (\underline{4} \times 5) + (2 \times 5)$

5. $(\underline{3} \times 9) = (1 \times 9) + (2 \times \underline{9})$

6. $(10 \times \underline{7}) = (5 \times 7) + (\underline{5} \times 7)$

7. $(5 \times \underline{6}) = (4 \times 6) + (\underline{1} \times 6)$

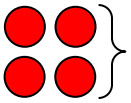
8. $(8 \times \underline{2}) = (\underline{2} \times 2) + (6 \times 2)$

Name _____ # ____ Date _____

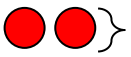
enVision Math 3.2 - Apply Properties: 3 and 4 as Factors Practice

Multiply. You may use counters or pictures to help.

1. Find 3 × 2



2 × 2 = _____

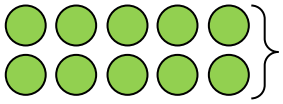


1 × 2 = _____

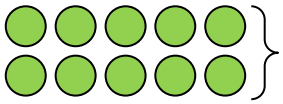
4 + 2 = _____

So, 3 × 2 = _____.

2. Find 4 × 5



2 × 5 = _____



2 × 5 = _____

10 + 10 = _____

So, 4 × 5 = _____.

4. 3 × 4 = _____

5. 4 × 8 = _____

6. 5 × 3 = _____

7. 4 × 0 = _____

8. 4 × 9 = _____

9. 3 × 8 = _____

10.
$$\begin{array}{r} 3 \\ \times\ 9 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 10 \\ \times\ 4 \\ \hline \end{array}$$

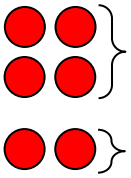
12.
$$\begin{array}{r} 3 \\ \times\ 1 \\ \hline \end{array}$$

enVision Math 3.2 – Apply Properties: 3 and 4 as Factors Practice

Answer Key

Multiply. You may use counters or pictures to help.

1. Find 3 × 2



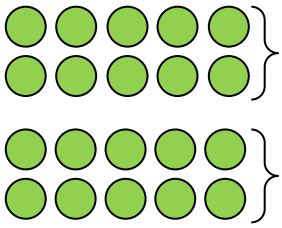
2 × 2 = 4

1 × 2 = 2

4 + 2 = 6

So, 3 × 2 = 6.

2. Find 4 × 5



2 × 5 = 10

2 × 5 = 10

10 + 10 = 20

So, 4 × 5 = 20.

4. 3 × 4 = 12

5. 4 × 8 = 32

6. 5 × 3 = 15

7. 4 × 0 = 0

8. 4 × 9 = 36

9. 3 × 8 = 24

10.
$$\begin{array}{r} 3 \\ \times\ 9 \\ \hline 27 \end{array}$$

11.
$$\begin{array}{r} 10 \\ \times\ 4 \\ \hline 40 \end{array}$$

12.
$$\begin{array}{r} 3 \\ \times\ 1 \\ \hline 3 \end{array}$$

Name _____ # ____ Date _____

enVision Math 3.3 - Apply Properties: 6 and 7 as Factors Practice

Find the product. You may draw pictures to help.

1. 4×6

2. 7×2

3. 6×1

4. 5×7

5. 6×8

6. 7×4

7. 7×9

8. 10×6

9. 1×7

10. 3×6

11. 9×6

12. 6×7

enVision Math 3.3 – Apply Properties: 6 and 7 as Factors Practice

Answer Key

Find the product. You may draw pictures to help.

1. $4 \times 6 = 24$

2. $7 \times 2 = 14$

3. $6 \times 1 = 6$

4. $5 \times 7 = 35$

5. $6 \times 8 = 48$

6. $7 \times 4 = 28$

7. $7 \times 9 = 63$

8. $10 \times 6 = 60$

9. $1 \times 7 = 7$

10. $3 \times 6 = 18$

11. $9 \times 6 = 54$

12. $6 \times 7 = 42$

Name _____ # ____ Date _____

enVision Math 3.4 - Apply Properties: 8 as a Factor Practice

Find the product. You may draw pictures to help.

1. $8 \times 4 =$ _____

2. $8 \times 2 =$ _____

3. $7 \times 8 =$ _____

4. $8 \times 6 =$ _____

5. $8 \times 0 =$ _____

6. $9 \times 8 =$ _____

7. $\begin{array}{r} 2 \\ \times\ 8 \\ \hline \end{array}$

8. $\begin{array}{r} 8 \\ \times\ 3 \\ \hline \end{array}$

9. $\begin{array}{r} 8 \\ \times\ 1 \\ \hline \end{array}$

10. $\begin{array}{r} 5 \\ \times\ 8 \\ \hline \end{array}$

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

12. $\begin{array}{r} 4 \\ \times\ 8 \\ \hline \end{array}$

13. $\begin{array}{r} 1 \\ \times\ 8 \\ \hline \end{array}$

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

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

enVision Math 3.4 – Apply Properties: 8 as a Factor Practice

Answer Key

Find the product. You may draw pictures to help.

1. $8 \times 4 =$ 32

2. $8 \times 2 =$ 16

3. $7 \times 8 =$ 56

4. $8 \times 6 =$ 48

5. $8 \times 0 =$ 0

6. $9 \times 8 =$ 72

7. $2 \times 8 = 16$

8. $8 \times 3 = 24$

9. $8 \times 1 = 8$

10. $5 \times 8 = 40$

11. $6 \times 8 = 48$

12. $4 \times 8 = 32$

13. $1 \times 8 = 8$

14. $10 \times 8 = 80$

15. $8 \times 8 = 64$

Name _____ # ____ Date _____

enVision Math 3.5 - Practice Multiplication Facts

Use known facts and strategies to find the product.

1. $2 \times 6 =$ _____

2. $4 \times 9 =$ _____

3. $5 \times 5 =$ _____

4. _____ $= 7 \times 3$

5. _____ $= 0 \times 4$

6. _____ $= 1 \times 6$

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

8. $\begin{array}{r} 4 \\ \times\ 2 \\ \hline \end{array}$

9. $\begin{array}{r} 9 \\ \times\ 1 \\ \hline \end{array}$

10. $\begin{array}{r} 10 \\ \times\ 3 \\ \hline \end{array}$

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

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

13. What is 9×2? _____

14. What is 1×0? _____

enVision Math 3.5 – Practice Multiplication Facts

Answer Key

Use known facts and strategies to find the product.

1. $2 \times 6 =$ 12

2. $4 \times 9 =$ 36

3. $5 \times 5 =$ 25

4. 21 $= 7 \times 3$

5. 0 $= 0 \times 4$

6. 6 $= 1 \times 6$

7. $8 \times 8 = 64$

8. $4 \times 2 = 8$

9. $9 \times 1 = 9$

10. $10 \times 3 = 30$

11. $6 \times 7 = 42$

12. $9 \times 9 = 81$

13. What is 9×2? 18

14. What is 1×0? 0

Name _____ # ____ Date _____

enVision Math 3.6 - The Associative Property: Multiply with 3 Factors Practice

Use the Associative Property of Multiplication to find the missing number. You may use objects or draw a picture to help.

1. $5 \times (3 \times 2) = (5 \times 3) \times$ _____

2. $6 \times (4 \times 5) = (6 \times 4) \times$ _____

3. $7 \times (2 \times 2) = (7 \times 2) \times$ _____

4. $4 \times (3 \times 6) = (4 \times$ _____ $) \times 6$

5. $2 \times (5 \times 6) = (2 \times 5) \times$ _____

6. $3 \times (3 \times 4) = (3 \times$ _____ $) \times 4$

Use the Associative Property of Multiplication to find the product. You may use objects or draw a picture to help.

7. $4 \times 4 \times 2 =$ _____

8. $5 \times 3 \times 3 =$ _____

9. $4 \times 2 \times 3 =$ _____

10. $8 \times 6 \times 2 =$ _____

11. $9 \times 3 \times 2 =$ _____

12. $2 \times 6 \times 6 =$ _____

enVision Math 3.6 – The Associative Property: Multiply with 3 Factors Practice

Answer Key

Use the Associative Property of Multiplication to find the missing number. You may use objects or draw a picture to help.

1. $5 \times (3 \times 2) = (5 \times 3) \times \underline{2}$
2. $6 \times (4 \times 5) = (6 \times 4) \times \underline{5}$
3. $7 \times (2 \times 2) = (7 \times 2) \times \underline{2}$
4. $4 \times (3 \times 6) = (4 \times \underline{3}) \times 6$
5. $2 \times (5 \times 6) = (2 \times 5) \times \underline{6}$
6. $3 \times (3 \times 4) = (3 \times \underline{3}) \times 4$

Use the Associative Property of Multiplication to find the product. You may use objects or draw a picture to help.

7. $4 \times 4 \times 2 = \underline{32}$
8. $5 \times 3 \times 3 = \underline{45}$
9. $4 \times 2 \times 3 = \underline{24}$
10. $8 \times 6 \times 2 = \underline{96}$
11. $9 \times 3 \times 2 = \underline{54}$
12. $2 \times 6 \times 6 = \underline{72}$

Name _____ # ____ Date _____

enVision Math 3.7 – Math Practices and Problem Solving: Repeated Reasoning

Mark wrote the equations at the right.

$7 \times 6 = (3 \times 6) + (4 \times 6) = 42$

$5 \times 7 = (5 \times 3) + (5 \times 4) = 35$

$7 \times 8 = (3 \times 8) + (4 \times 8) = 56$

1. Which factors did Mark use repeatedly to find the products? Make a generalization.

2. Complete this equation to test whether your generalization is true for other facts. Explain.

   $7 \times 2 = (\_\_\_\_\_ \times \_\_\_\_\_) + (\_\_\_\_\_ \times \_\_\_\_\_) = \_\_\_\_\_$

3. What is another way you can use known facts to solve 7×2? What generalization can you make from this way?

enVision Math 3.7 – Math Practices and Problem Solving: Repeated Reasoning

Answer Key

Mark wrote the equations at the right.

$7 \times 6 = (3 \times 6) + (4 \times 6) = 42$

$5 \times 7 = (5 \times 3) + (5 \times 4) = 35$

$7 \times 8 = (3 \times 8) + (4 \times 8) = 56$

1. Which factors did Mark use repeatedly to find the products? Make a generalization.

   He used 3 and 4 repeatedly; I can break 7s facts into 3s and 4s facts.

2. Complete this equation to test whether your generalization is true for other facts. Explain.

   $7 \times 2 = (\underline{3} \times \underline{2}) + (\underline{4} \times \underline{2}) = \underline{14}$

   My generalization is true. The 7 fact could be broken apart into a 3 fact and a 4 fact. The product is correct.

3. What is another way you can use known facts to solve 7×2? What generalization can you make from this way?

   Sample answer: $7 \times 2 = (2 \times 2) + (5 \times 2) = 14$; I can break up 7 different ways.