

# Sliding into 4<sup>th</sup> Grade!



\_\_\_\_\_ 's  
**Summer Math Packet**

**Place Value**

Write the following numbers in standard form:

1. three thousand, four hundred twenty seven \_\_\_\_\_

2. nine hundred sixty eight \_\_\_\_\_

Write the following numbers in expanded form:

3. 4,795 \_\_\_\_\_

4. 872 \_\_\_\_\_

Write the following numbers in word form:

5. 6,354 \_\_\_\_\_

6.  $2,000 + 500 + 90 + 7$  \_\_\_\_\_

Write the following numbers in standard and expanded form:

7. four hundred six Standard Expanded  
 \_\_\_\_\_

8. seven thousand five hundred nine Standard Expanded  
 \_\_\_\_\_

**Place Value**

1. Circle the number that has a 6 in the hundreds place:

6,292

2,692

2,962

2. Circle the number that has a 4 in the tens place:

3,741

1,473

7,314

3. How is  $300 + 60 + 2$  written in standard form?

A. 3,620

B. 3,260

C. 362

D. 326

4. How is  $9,000 + 20 + 7$  written in standard form?

A. 927

B. 907

C. 9,207

D. 9,027

5. How is 5,309 written in expanded form?

A.  $500 + 30 + 9$ B.  $5,000 + 30 + 9$ C.  $5,000 + 30 + 90$ D.  $5,000 + 300 + 9$

**Place Value**

Use the following place value table to answer questions 1 and 2:

Thousands	Hundreds	Tens	Ones
6	5	2	7

1. What is the value of the 5?  
A. 5      B. 50      C. 500      D. 5,000
2. What is the value of the 6?  
A. 6      B. 60      C. 600      D. 6,000
3. Charlie wrote a number using the clues below:
  - The number has three digits.
  - There is a 7 in the hundreds place.
  - There is a 5 in the tens place.
  - The digit in the ones place is three less than the digit in the hundreds place.

What is Charlie's number? \_\_\_\_\_

Explain how you found the digit in the ones place: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Mary is in seat number 1,024. Calista's seat number has the same number of thousands and tens as Mary's seat number, but 3 more hundreds and 2 fewer ones than Mary's seat number. What is Calista's seat number? \_\_\_\_\_

**Place Value**

Compare. Use  $>$ ,  $<$  or  $=$

1.  $605 \bigcirc 723$

2.  $1,729 \bigcirc 1,279$

3.  $987 \bigcirc 987$

4.  $222 \bigcirc 232$

5.  $2,989 \bigcirc 2,990$

6.  $479 \bigcirc 379$

Order the numbers least to greatest:

7.  $3,829; 3,521; 4,721$  \_\_\_\_\_

8.  $729; 862; 629$  \_\_\_\_\_

Order the numbers greatest to least:

9.  $6,721; 7,121; 7,021$  \_\_\_\_\_

10.  $562; 691; 828$  \_\_\_\_\_

11. Write the greatest and least 4-digit number that you can make using each of the numerals 3, 9, 7 and 5 one time:

greatest \_\_\_\_\_ least \_\_\_\_\_

12. There are 175 students in the 4<sup>th</sup> grade. There are 40 students in each of the three classes in the third grade. Which grade has more students? \_\_\_\_\_

Explain: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Place Value**

Round to the nearest ten:

1. 62 \_\_\_\_\_

2. 88 \_\_\_\_\_

3. 99 \_\_\_\_\_

4. 21 \_\_\_\_\_

5. 35 \_\_\_\_\_

6. 71 \_\_\_\_\_

Round to the nearest hundred:

7. 309 \_\_\_\_\_

8. 792 \_\_\_\_\_

9. 555 \_\_\_\_\_

10. 106 \_\_\_\_\_

11. 283 \_\_\_\_\_

12. 645 \_\_\_\_\_

13. A chef ordered 229 eggs. To the nearest ten, how many eggs did the chef order?

\_\_\_\_\_

14. Mrs. Jones' class has 27 students. To the nearest ten, how many students are in Mrs. Jones' class?

\_\_\_\_\_

15. Maggie sold 113 raffle tickets. To the nearest hundred, how many tickets did Maggie sell?

\_\_\_\_\_

16. The diameter of Mercury is between 1,000 miles and 4,000 miles. The last two digits are 32. There is a 0 in the hundreds place. The number is greater than 2,999 but less than 3,500.

What is the diameter of Mercury? \_\_\_\_\_

What is the number rounded to the nearest hundred? \_\_\_\_\_

What is the number rounded to the nearest thousand? \_\_\_\_\_

**Addition**

Identify the Property of Addition. Use the word bank:

Commutative

Identity

Associative

- $3 + 2 = 2 + 3$  \_\_\_\_\_ Property of Addition
- $(3 + 7) + 8 = 3 + (7 + 8)$  \_\_\_\_\_ Property of Addition
- $7 + 0 = 7$  \_\_\_\_\_ Property of Addition
- What is the missing number?  
 $\square + 8 = 8 + 3$   
A. 2   B. 7   C. 3   D. 5
- What is the missing number?  
 $82 + \square = 82$   
A. 0   B. 1   C. 82   D. 164
- Fill in the missing numbers:  
 $(\underline{\quad} + 6) + 3 = 5 + (\underline{\quad} + \underline{\quad})$
- Fill in the missing numbers:  
 $12 + \underline{\quad} = 3 + 12$
- Mark saw 9 sailboats, 3 rowboats and 7 canoes on the lake. How many boats did he see altogether? Write a number sentence using the Associative Property of Addition to show the total number of boats that Mark saw altogether.  
  
\_\_\_\_\_

**Addition**

Use the part of the addition table shown below to answer questions 1-3:

+	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12

1. Look at the numbers ringed in the addition table. What do you notice about these numbers?

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2. Complete the number sentences:

$$3 + \underline{\quad} = 3$$

$$2 + \underline{\quad} = 3$$

$$1 + \underline{\quad} = 3$$

$$0 + \underline{\quad} = 3$$

3. Which property best explains why the row for 3 and the column for 3 in the addition table have the same numbers?
- A. Associative Property of Addition
  - B. Commutative Property of Addition
  - C. Distributive Property
  - D. Identity Property



**Addition**

Estimate. Round each addend to the indicated place value and then solve:

1.  $629 + 38$  ; tens

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

2.  $72 + 41$  ; tens

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

3.  $1,321 + 2,463$  ; hundreds

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

4.  $741 + 855$  ; hundreds

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

5. On Wednesday, the museum had 219 visitors. The next day, there were 694 visitors. About how many people visited the museum over the two days?

Show your work:

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6. Three hundred ninety-one people attended the football game and 422 people attended the soccer game. About how many people attended these two events altogether? Round to the nearest hundred:

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# Addition

Add:

$$\begin{array}{r|c|c} 1 & 7 & 4 \\ + & 1 & 8 \\ \hline & & \end{array}$$

$$\begin{array}{r|c|c} 1 & 5 & 7 \\ + & 6 & 2 \\ \hline & & \end{array}$$

$$\begin{array}{r|c|c} 7 & 2 & 1 \\ + & 1 & 4 & 2 \\ \hline & & & \end{array}$$

$$\begin{array}{r|c|c} 6 & 9 & 3 \\ + & 1 & 2 & 0 \\ \hline & & & \end{array}$$

Add. Check for reasonableness:

$$\begin{array}{r|c|c} 3 & 2 & 1 \\ + & 3 & 1 \\ \hline & & \end{array}$$

$$\begin{array}{r|c|c} 4 & 8 & 6 \\ + & 2 & 1 & 3 \\ \hline & & & \end{array}$$

Estimate:

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

Estimate:

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

7. Mary's farm has 468 apple trees and 224 pear trees. To the nearest ten, how many apple and pear trees are there altogether?

Show your work:

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## Addition

Add:

$$\begin{array}{r}
 1. \quad \begin{array}{|c|c|c|c|} \hline 4 & 7 & 2 & 1 \\ \hline + & 6 & 2 & 9 \\ \hline & & & \\ \hline \end{array} \\
 \end{array}$$

$$\begin{array}{r}
 2. \quad \begin{array}{|c|c|c|c|} \hline 5 & 7 & 8 & 7 \\ \hline + & 3 & 3 & 1 \\ \hline & & & \\ \hline \end{array} \\
 \end{array}$$

$$\begin{array}{r}
 3. \quad \begin{array}{|c|c|c|c|} \hline 2 & 8 & 2 & 1 \\ \hline + & 1 & 2 & 2 \\ \hline & & & \\ \hline \end{array} \\
 \end{array}$$

$$\begin{array}{r}
 4. \quad \begin{array}{|c|c|c|c|} \hline 7 & 1 & 3 & 8 \\ \hline + & 1 & 2 & 1 \\ \hline & & & \\ \hline \end{array} \\
 \end{array}$$

5. The local park has 1,212 maple trees and 1,021 beech trees. How many trees are in the park? \_\_\_\_\_

Show your work:

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6. On Monday, Mike's family drove 2,023 miles to Los Angeles. On Tuesday, they drove 389 miles from Los Angeles to Las Vegas. How far did Mike's family drive on Monday and Tuesday altogether? \_\_\_\_\_

Show your work:

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**Subtraction**

Estimate. Round each number to the indicated place value and then solve:

1.  $976 - 654$  ; tens

$$\underline{\quad\quad\quad} - \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

2.  $7,394 - 2,202$  ; hundreds

$$\underline{\quad\quad\quad} - \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

3.  $877 - 770$  ; hundreds

$$\underline{\quad\quad\quad} - \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

4.  $1,829 - 973$  ; tens

$$\underline{\quad\quad\quad} - \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

5. A museum has 329 works of art on the first floor. It also has 472 works of art on the third floor. About how many more works of art are found on the third floor? \_\_\_\_\_

Show your work:

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6. Maria's scout troop sold 3,621 boxes of cookies. They started with 5,000 boxes. To the nearest hundred, about how many boxes of cookies do they have left to sell? \_\_\_\_\_

Show your work:

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# Subtraction

Subtract:

$$1. \quad \begin{array}{r} 252 \\ - 122 \\ \hline \end{array}$$

$$2. \quad \begin{array}{r} 791 \\ - 531 \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 986 \\ - 723 \\ \hline \end{array}$$

$$4. \quad \begin{array}{r} 528 \\ - 319 \\ \hline \end{array}$$

$$5. \quad \begin{array}{r} 617 \\ - 308 \\ \hline \end{array}$$

$$6. \quad \begin{array}{r} 327 \\ - 129 \\ \hline \end{array}$$

Subtract. Use addition to check your answer:

$$7. \quad \begin{array}{r} 687 \\ - 353 \\ \hline \end{array}$$

$$8. \quad \begin{array}{r} 177 \\ - 94 \\ \hline \end{array}$$

$$9. \quad \begin{array}{r} 843 \\ - 187 \\ \hline \end{array}$$

Check: \_\_\_\_\_

Check: \_\_\_\_\_

Check: \_\_\_\_\_

Use addition to find each unknown:

$$10. \quad \begin{array}{r|l|l} 6 & 1 & \square \\ - & 4 & 7 \\ \hline \triangle & 0 & 2 \end{array}$$

$$11. \quad \begin{array}{r|l|l} \square & 9 & 9 \\ - & 1 & \triangle & 0 \\ \hline 2 & 1 & 9 \end{array}$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

**Subtraction**

Subtract:

1. 
$$\begin{array}{r} 4,392 \\ - 2,181 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 6,928 \\ - 1,816 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 1,201 \\ - 100 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 3,726 \\ - 2,637 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 7,371 \\ - 365 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 3,559 \\ - 1,579 \\ \hline \end{array}$$

Subtract. Use addition to check your answer:

7. 
$$\begin{array}{r} 3,298 \\ - 858 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 1,392 \\ - 238 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 3,475 \\ - 1,267 \\ \hline \end{array}$$

Check: \_\_\_\_\_

Check: \_\_\_\_\_

Check: \_\_\_\_\_

10. Melissa is buying one of two cars. One costs \$ 8,522 and the other costs \$ 5,334. How much money would Melissa save if she bought the less expensive car?

Show your work:

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## Subtraction

Subtract. Use addition to check your answer:

$$1. \quad \begin{array}{r} 408 \\ - 37 \\ \hline \end{array}$$

$$2. \quad \begin{array}{r} 604 \\ - 492 \\ \hline \end{array}$$

$$3. \quad \begin{array}{r} 805 \\ - 75 \\ \hline \end{array}$$

Check: \_\_\_\_\_

Check: \_\_\_\_\_

Check: \_\_\_\_\_

Subtract:

$$4. \quad \begin{array}{r} \$ 9,006 \\ - \$ 7,474 \\ \hline \end{array}$$

$$5. \quad \begin{array}{r} \$ 9,003 \\ - \$ 5,295 \\ \hline \end{array}$$

$$6. \quad \begin{array}{r} \$ 3,070 \\ - \$ 2,021 \\ \hline \end{array}$$

$$7. \quad \begin{array}{r} 9,560 \\ - 7,920 \\ \hline \end{array}$$

$$8. \quad \begin{array}{r} 1,007 \\ - 972 \\ \hline \end{array}$$

$$9. \quad \begin{array}{r} 8,007 \\ - 4,836 \\ \hline \end{array}$$

10. Marty's book has 500 pages. He has read 245 pages so far. How many pages does Marty have left to read? Show your work:

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11. Susan won 3,000 tickets at the arcade. She used 1,729 tickets to buy a prize. How many tickets does she have left? Show your work:

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**Subtraction**

1. On Monday, the temperature in Myrtle Beach, South Carolina was 85 degrees. On Thursday, it was 72 degrees. How many degrees warmer was it on Monday? Show your work:

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2. Harry is going to swim camp, which costs \$239 for one week. Sally is going to baseball camp, which costs \$575 for one week. How much more does one week of baseball camp cost than one week of swim camp? Show your work:

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3. Mrs. Jones has \$4,392 in her checking account. She bought a new TV which cost \$273. She took the money for the TV from her checking account. How much money is left in her checking account? Show your work:

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4. There are 365 days in one year. There were 162 sunny days. The rest of the days were rainy. How many days were rainy? Show your work:

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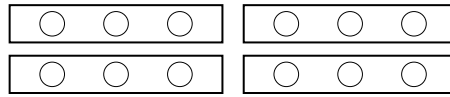
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# Multiplication

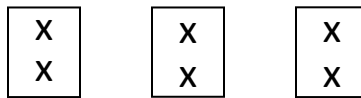
Write an addition sentence and a multiplication sentence for each model:

1.



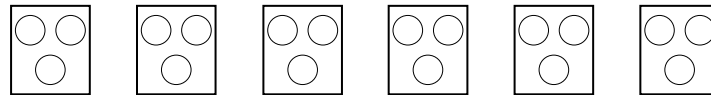
\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

2.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

3.



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

4. Lisa has 4 bags of buttons. Each bag has 10 buttons. How many buttons does Lisa have? Draw a model. Write an addition and multiplication sentence.

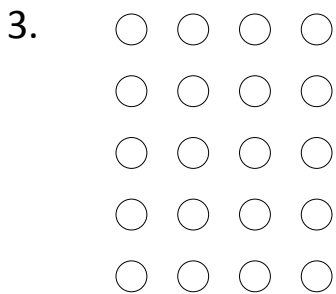
5. Jim is finally washing windows. There are 5 windows in each of 5 rooms. How many windows does Jim have to wash? Draw a model. Write an addition and multiplication sentence.

# Multiplication

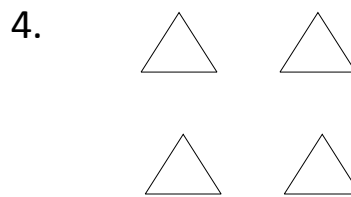
Draw an array and write a multiplication sentence to solve:

- Mrs. Smith baked a batch of cookies. She arranged the cookies in 4 equal rows of 3 cookies on the baking sheet. How many cookies did she bake?
- John arranged his collection of seashells on the table. He had 6 rows of 4 seashells. How many seashells does John have?

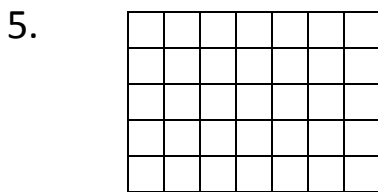
Write an addition sentence and a multiplication sentence to show equal rows:



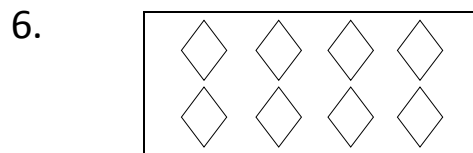
\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_



\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

**Multiplication**

1. Mark went to the ice cream shop. They had chocolate, strawberry and vanilla ice cream. The cone choices were sugar, waffle and plain. How many different ice cream cones can Mark make? Show your work:
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2. Linda can choose peanuts, carrots or popcorn for a snack. She can have water or juice to drink. How many snack and drink combinations can Linda make?
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3. Celeste finishes reading a book every 3 days. How many days does it take for her to read 7 books? \_\_\_\_\_

Complete the table to solve:

Days	Books
3	1
6	
12	
	5
18	6
	7

## Multiplication

Use the Multiplication Table to answer questions 1 - 6.

x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60

1. Look at the products with a factor of 5. What pattern do you see?  
\_\_\_\_\_
2. Look at the products with a factor of 0. What do you notice?  
\_\_\_\_\_
3. Find  $2 \times 6$ . Circle the factors and the product. Write the product. \_\_\_\_\_
4. Look at the product shaded grey. Draw a triangle around the two factors that make this product. Write the two factors. \_\_\_\_\_
5. Tom noticed he could find the product of  $2 \times 3$  in the multiplication table. Find  $2 \times 3$ . Draw a square around the factors and the product. Write the product.  
\_\_\_\_\_
6. Find  $3 \times 2$ . Draw a square around the factors and the product. Write the product. \_\_\_\_\_

**Multiplication**

Multiply:

- |                                      |                                       |                                      |
|--------------------------------------|---------------------------------------|--------------------------------------|
| 1. $4 \times 2 = \underline{\quad}$  | 2. $2 \times 2 = \underline{\quad}$   | 3. $6 \times 2 = \underline{\quad}$  |
| 4. $2 \times 5 = \underline{\quad}$  | 5. $2 \times 7 = \underline{\quad}$   | 6. $2 \times 10 = \underline{\quad}$ |
| 7. $3 \times 2 = \underline{\quad}$  | 8. $1 \times 2 = \underline{\quad}$   | 9. $5 \times 2 = \underline{\quad}$  |
| 10. $7 \times 2 = \underline{\quad}$ | 11. $2 \times 3 = \underline{\quad}$  | 12. $2 \times 4 = \underline{\quad}$ |
| 13. $2 \times 1 = \underline{\quad}$ | 14. $0 \times 2 = \underline{\quad}$  | 15. $8 \times 2 = \underline{\quad}$ |
| 16. $9 \times 2 = \underline{\quad}$ | 17. $2 \times 0 = \underline{\quad}$  | 18. $2 \times 6 = \underline{\quad}$ |
| 19. $2 \times 8 = \underline{\quad}$ | 20. $10 \times 2 = \underline{\quad}$ | 21. $2 \times 9 = \underline{\quad}$ |

Write a multiplication sentence with a symbol for the unknown. Then solve:

22. Tony's mom gave him and his friend \$8 each to spend at the store. How much money did Tony's mom give the boys altogether?
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23. There are 9 people in the Jones family. If each person has a pair of gloves. How many gloves are there altogether?
- 

24. Which property of multiplication is shown:

$$2 \times 3 = 6 \quad 3 \times 2 = 6$$

- A. Commutative Property of Multiplication
- B. Associative Property of Multiplication
- C. Identity Property of Addition
- D. Commutative Property of Addition

**Multiplication**

Multiply:

- |     |                       |     |                      |     |                       |
|-----|-----------------------|-----|----------------------|-----|-----------------------|
| 1.  | $5 \times 2 =$ _____  | 2.  | $3 \times 5 =$ _____ | 3.  | $6 \times 5 =$ _____  |
| 4.  | $5 \times 3 =$ _____  | 5.  | $5 \times 0 =$ _____ | 6.  | $1 \times 5 =$ _____  |
| 7.  | $2 \times 5 =$ _____  | 8.  | $9 \times 5 =$ _____ | 9.  | $5 \times 8 =$ _____  |
| 10. | $7 \times 5 =$ _____  | 11. | $0 \times 5 =$ _____ | 12. | $5 \times 5 =$ _____  |
| 13. | $4 \times 5 =$ _____  | 14. | $5 \times 1 =$ _____ | 15. | $5 \times 6 =$ _____  |
| 16. | $5 \times 7 =$ _____  | 17. | $5 \times 4 =$ _____ | 18. | $5 \times 9 =$ _____  |
| 19. | $5 \times 10 =$ _____ | 20. | $8 \times 5 =$ _____ | 21. | $10 \times 5 =$ _____ |

Write a multiplication sentence with a symbol for the unknown. Then solve:

22. Mary and four friends are planning a party. Mary is bringing apple slices. Each person will get 9 apple slices. How many apple slices does Mary need to bring?

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23. A pumpkin patch has 5 rows of pumpkins. Each row has 7 pumpkins. How many pumpkins are in the patch?

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