

Associative Property Worksheet

Number and Quantity

Grades 1 to 3

Skill Questions

Name:

Date:

1 Which number belongs in the blank?

$$(5+2)+8=(2+_{--})+5$$

Answer

2 Solve.

$$(6+4)+9=?$$

Answer

3 Choose two numbers to group. Then complete the equation.

$$16 + 5 + 5 = ?$$

Answer

4 Choose two numbers to group. Then complete the equation.

$$3 + 8 + 7 = ?$$

Answer

Associative Property Worksheet | Grades 1 to 3

5	Break apart one of the numbers into two addends. Then use the associative
	property to solve the equation.

$$38 + 15 = ?$$

								Answer						
ė	-	-	-	-	-	-	-	-	-	-	-	-	-	ъ.
-	-	-	-	-	-	-	-	-	÷	-	÷	-	-	J

6 Which number belongs in the blank?

$$(9 \times 7) \times 5 = (7 \times _{--}) \times 9$$

								Answer						
r	-	-	-	÷	÷	-	-	-	-	-	÷	÷	-	'n
L	_	_	_	_	_	-	-	-	-	-	-	_	_	J

7 Solve.

$$(5\times4)\times6=?$$

								Answer								
r	-	-	-	-	-	-	-	-	-	-	-	-	-	'n		
														1		
														1		
														1		
														1		
L	-	-	-	-	-	=	-	-	-	-	-	-	-	J		

8 Choose two numbers to group. Then complete the equation.

$$8 \times 2 \times 5 = ?$$



9 Choose two numbers to group. Then complete the equation.

$$5 \times 7 \times 6 = ?$$

	Answer				
I .	1				
I .	1				
I .	1				
I .	1				

Break apart one of the numbers into two factors. Then use the associative property to solve the equation.

$$14 \times 5 = ?$$

			An	SW	/er
e -	-	 	 		- 5
					1.0
					1.0
					1.0
					1.0
L =	-	 	 		- 2

Applied Questions

11 Chloe writes an equation on her paper 13 + 7 + 23 and shows her friend Wyatt two ways to solve it:

$$(13 + 7) + 23$$

$$13 + (7 + 23)$$

Wyatt wants to use the same method to solve the equation 16 - 12 - 2.

$$(16-12)-2$$

$$16 - (12 - 2)$$

Will the same method work for Wyatt's equation? Why or why not?

Answer

Marnie and Pete are filling bags with candy at a candy shop.

Marnie puts 8 blue candies, 7 green candies, and 2 yellow candies into her bag.

Pete puts 7 yellow candies, 8 green candies, and 2 blue candies into her bag.

Who put more candy in their bag? How do you know?

Answer

Associative Property Worksheet | Grades 1 to 3

13	Juniper made a beaded necklace. She placed 28 purple beads, 14 pink beads, and 6 white beads on the necklace. How many beads did she put on the necklace in all?
	Answer
14	There are 4 third grade classrooms. Each classroom has 3 groups of desks with 5 desks in each group. How many desks are there in all?
	Write an equation and solve.
	Answer
15	A farmer has 2 flocks of sheep. Each flock has 11 sheep. Each sheep has 4 legs! How many sheep legs are there in all?
	Write an equation and solve.
	Answer

Answers

Question number	Question	Answers	Standard
1	Which number belongs in the blank? $ (5+2)+8=(2+_{})+5 $	8	3.OA.B.5
2	Solve. $(6 + 4) + 9 = ?$	19	3.OA.B.5
3	Choose two numbers to group. Then complete the equation. 16 + 5 + 5 = ?	Students can choose to group the numbers in any way and still get the same answer, but the most efficient way would be to add 5 and 5 first to get a 10, then add the 16. (5 + 5) + 16 10 + 16 = 26	3.OA.B.5
4	Choose two numbers to group. Then complete the equation. 3 + 8 + 7 = ?	Students can choose to group the numbers in any way and still get the same answer, but the most efficient way would be to add 7 and 3 first to get a 10, then add the 8. (3 + 7) + 8 10 + 8 = 18	3.OA.B.5

Question number	Question	Answers	Standard
5	Break apart one of the numbers into two addends. Then use the associative property to solve the equation. 38 + 15 = ?	Students can break apart a number and then solve in any order; the most efficient way would be to break apart the 15 into 2 and 13 to add 2 to the 38. This gives an easier number to work with (40). 38 + 15 = ? 38 + 2 + 13 = ? (38 + 2) +D 13 = ? 40 + 13 = 53	3.OA.B.5
6	Which number belongs in the blank? $(9 \times 7) \times 5 = (7 \times __) \times 9$	5	3.OA.B.5
7	Solve. $(5 \times 4) \times 6 = ?$	120	3.OA.B.5
8	Choose two numbers to group. Then complete the equation. $8 \times 2 \times 5 = ?$	Students can choose to group the numbers in any way and still get the same answer, but the most efficient way would be to multiply 5 and 2 first to get 10, then multiply by 8. $(5 \times 2) \times 8$ $10 \times 8 = 80$	3.OA.B.5

Question number	Question	Answers	Standard
9	Choose two numbers to group. Then complete the equation. $5 \times 7 \times 6 = ?$	Students can choose to group the numbers in any way and still get the same answer, but the most efficient way would be to multiply 5 and 6 first to get 30, then multiply by 7. $(5 \times 6) \times 7$ $30 \times 7 = 210$	3.OA.B.5
10	Break apart one of the numbers into two factors. Then use the associative property to solve the equation. $14 \times 5 = ?$	Students can break apart a number and then solve in any order; the most efficient way would be to break apart the 14 into 2×7 , then group the 5 and 2 to multiply first. This gives an easier number to work with (10). $14 \times 5 = ?$ $2 \times 7 \times 5 = ?$ $(2 \times 5) \times 7 = ?$ $10 \times 7 = 70$	3.OA.B.5

Question number	Question	Answers	Standard
11	Chloe writes an equation on her paper $13 + 7 + 23$ and shows her friend Wyatt two ways to solve it: $(13 + 7) + 23 \qquad 13 + (7 + 23)$ $20 + 23 = 43 \checkmark \qquad 13 + 30 = 43 \checkmark$ Wyatt wants to use the same method to solve the equation $16 - 12 - 2$. $(16 - 12) - 2 \qquad 16 - (12 - 2)$ Will the same method work for Wyatt's equation? Why or why not?	No, it won't work because when you group the numbers differently you end up with different numbers. $(16-12)-2$ $16-(12-2)$ $4-2=2 \times 16-10=6$	3.OA.B.5
12	Marnie and Pete are filling bags with candy at a candy shop. Marnie puts 8 blue candies, 7 green candies, and 2 yellow candies into her bag. Pete puts 7 yellow candies, 8 green candies, and 2 blue candies into her bag. Who put more candy in their bag? How do you know?	They each put the same number of candies in their bag. Marnie: $8 + 7 + 2 = ?$ $(8 + 2) + 7 = ?$ $10 + 7 = 17$ 17 candies Pete: $7 + 8 + 2 = ?$ $7 + (8 + 2) = ?$ $7 + 10 = 17$ 17 candies	3.OA.B.5
13	Juniper made a beaded necklace. She placed 28 purple beads, 14 pink beads, and 6 white beads on the necklace. How many beads did she put on the necklace in all?	28 + 14 + 6 = ? 28 + (14 + 6) = ? 28 + 20 = 48 beads	3.OA.B.5

Question number	Question	Answers	Standard
14	There are 4 third grade classrooms. Each classroom has 3 groups of desks with 5 desks in each group. How many desks are there in all? Write an equation and solve.	$4 \times 3 \times 5 = ?$ $(4 \times 5) \times 3$ $20 \times 3 = 60 \text{ desks}$	3.OA.B.5
12	A farmer has 2 flocks of sheep. Each flock has 11 sheep. Each sheep has 4 legs! How many sheep legs are there in all? Write an equation and solve.	$2 \times 11 \times 4$ $(2 \times 4) \times 11$ $8 \times 11 = 88$ sheep legs	3.OA.B.5

Do you have a group of students who need a boost in math?

Each student could receive a personalized lesson every week from our specialist one-on-one math tutors.



Differentiated instruction for each student



Aligned to your state's standard



Scaffolded learning to close gaps

Speak to us

thirdspacelearning.com/us/



+1 929-298-4593



Mello@thirdspacelearning.com

