

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Teacher/Period: \_\_\_\_\_ Final Grade: \_\_\_\_\_ / 100

## Apply Properties of Operations Space Theme

Question 1 (Short Answer)

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If  $5+4=9$ , what is  $4+5$ ?  
(Commutative property of addition)



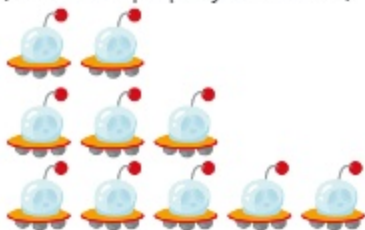
Answer:

\_\_\_\_\_

Question 2 (Short Answer)

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Solve  $2+3+5$ ?  
(Associative property of addition)



Answer:

\_\_\_\_\_

Question 3 (Short Answer)

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If  $7 + 6 = 13$ , what is  $6 + 7$ ?  
(Commutative property of addition)

Answer:

\_\_\_\_\_

Question 4 (Multiple Choice)

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Use the associative property to solve  $1 + 5 + 9 = ?$   
Hint: Group  $1 + 9$  first.

- A. 11
- B. 19
- C. 15
- D. 10

Question 5 (True/False)

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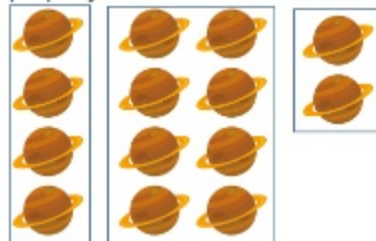
True or False:  $3 + 7 = 7 + 3$ .  
(Commutative property of addition)

- A. True
- B. False

Question 6 (Short Answer)

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Solve  $(4+8)+2$  using the associative property.



Answer:

\_\_\_\_\_

Question 7 (Multiple Answer)

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If  $6 + 3 + 1 = 10$ , how could you group the numbers to make adding them easier?  
(Associative property of addition)

- A.  $6 + (3+1)=10$
- B.  $(6+3)+1=10$
- C.  $(6+1)+3=10$

Question 10 (Multiple Choice)

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Solve  $3 + (2 + 7)$  using the associative property.

- A.  $3 + 10 = 11$
- B.  $5 + 7 = 13$
- C.  $3 + 9 = 12$

Question 8 (Short Answer)

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Fill in the blank:  $8 + 2 = 2 + \underline{\quad}$ ?  
(Commutative property of addition)

Answer:

\_\_\_\_\_

Question 9 (Multiple Choice)

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If you know  $4+6=10$ , how can you use that to find  $6+4$ ?

- A.  $10-6=6$
- B.  $6+4=4$
- C.  $6+4 = 4+6$

# Answer Key for Apply Properties of Operations Space Theme

1: 9

2: 10

3: 13

4: 15

5: true

6: 14

7:  $(6+3)+1=10$

8: 8

9:  $6+4 = 4+6$

10:  $3 + 9 = 12$