

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

Score: \_\_\_\_\_

### Commutative and Associative Properties

Sheet 1

The equations in each question are equivalent. Fill in the missing number and write the property used:

1)  $5 + \underline{\quad} = 11$

$6 + 5 = \underline{\quad}$

Property: \_\_\_\_\_

2)  $4 \times (7 \times 2) = \underline{\quad}$

$(4 \times 7) \times \underline{\quad} = 56$

Property: \_\_\_\_\_

3)  $11 + 7 = \underline{\quad}$

$7 + \underline{\quad} = 18$

Property: \_\_\_\_\_

4)  $(\underline{\quad} + 8) + 3 =$

$4 + (8 + 3) =$

Property: \_\_\_\_\_

$\underline{\quad} \times 5) \times 8 = \underline{\quad}$

$\underline{\quad} \times (5 \times \underline{\quad}) = 280$

Property: \_\_\_\_\_

7)  $\underline{\quad} \times 8 = 24$

$8 \times 3 = \underline{\quad}$

Property: \_\_\_\_\_

$\underline{\quad} \times \underline{\quad} = 18$

$\underline{\quad} \times 6 = \underline{\quad}$

Property: \_\_\_\_\_

10)  $(7 \times 2) \times 6 =$

$7 \times (2 \times \underline{\quad}) =$

Property: \_\_\_\_\_

$\underline{\quad} + 8) + 5 = 17$

$\underline{\quad} + (8 + 5) = \underline{\quad}$

Property: \_\_\_\_\_

13)  $14 + 5 = \underline{\quad}$

$5 + \underline{\quad} = 19$

Property: \_\_\_\_\_

14)  $(2 \times 5) \times 6 = \underline{\quad}$

$2 \times (5 \times \underline{\quad}) = 60$

Property: \_\_\_\_\_

15)  $9 \times 6 = \underline{\quad}$

$\underline{\quad} \times 9 = 54$

Property: \_\_\_\_\_

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

**Answer key**

Score: \_\_\_\_\_

**Commutative and Associative Properties**

Sheet 1

1)  $5 + 6 = 11$

$6 + 5 = 11$

Property: **Commutative property of addition**

2)  $4 \times (7 \times 2) = 56$

$(4 \times 7) \times 2 = 56$

Property: **Associative property of multiplication**

3)  $11 + 7 = 18$

$7 + 11 = 18$

Property: **Commutative property of addition**

4)  $(4 + 8) + 3 = 15$

$4 + (8 + 3) = 15$

Property: **Associative property of addition**

5)  $2 \times (5 \times 3) = 30$

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6)  $(7 \times 5) \times 8 = 280$

$7 \times (5 \times 8) = 280$

Property: **Associative property of multiplication**

7)  $3 \times 8 = 24$

$8 \times 3 = 24$

Property: **Commutative property of multiplication**

8)  $18 \times 3 = 54$

$3 \times 18 = 54$

Property: **Commutative property of multiplication**

10)  $(7 \times 2) \times 6 = 84$

$7 \times (2 \times 6) = 84$

Property: **Associative property of multiplication**

9)  $(8 + 5) + 4 = 17$

$8 + (5 + 4) = 17$

Property: **Associative property of addition**

13)  $14 + 5 = 19$

$5 + 14 = 19$

Property: **Commutative property of addition**

14)  $(2 \times 5) \times 6 = 60$

$2 \times (5 \times 6) = 60$

Property: **Associative property of multiplication**

15)  $9 \times 6 = 54$

$6 \times 9 = 54$

Property: **Commutative property of multiplication**