Commutative and Associative Properties

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

1) (___ + 6) + 8 = 16

2 + (6 + 8) = ___

Property: _____
_____

2) 12 × 3 = ___

___ × 12 = 36

Property: _____
_____

3) (4 × 9) × 5 = ___

4 × (9 × ___) = 180

Property: _____
_____

4) 7 + ___ = 10

3 + 7 = ___

Property: _____

___ + 8 = 14

___ + 6 = ___

ty: _____

7) ___ × 6 = 12

6 × 2 = ___

Property: _____

× (8 × 3) = ___

× 8) × ___ = 120

ty: _____

10) 4 + 9 = ___

9 + ___ = 13

Property: _____

___ + 5) + 2 = 13

+ (5 + 2) = ___

ty: _____

13) (7 + ___) + 4 = 19

7 + (8 + 4) = ___

Property: _____
_____

14) 7 × ___ = 63

9 × 7 = ___

Property: _____
_____

15) (4 + ___) + 2 = 14

4 + (8 + 2) = ___

Property: _____
_____

Commutative and Associative Properties

Sheet 2

1) $(2 + 6) + 8 = 16$

$2 + (6 + 8) = 16$

Property: Associative property of addition

2) $12 \times 3 = 36$

$3 \times 12 = 36$

Property: Commutative property of multiplication

3) $(4 \times 9) \times 5 = 180$

$4 \times (9 \times 5) = 180$

Property: Associative property of multiplication

4) $7 + 3 = 10$

$3 + 7 = 10$

Property: Commutative property of addition

$+ 8 = 14$

$+ 6 = 14$

Property: Commutative property of addition

7) $2 \times 6 = 12$

$6 \times 2 = 12$

Property: Commutative property of multiplication

$\times (8 \times 3) = 120$

$\times 8) \times 3 = 120$

Property: Associative property of multiplication

10) $4 + 9 = 13$

$9 + 4 = 13$

Property: Commutative property of addition

$+ 5) + 2 = 13$

$+ (5 + 2) = 13$

Property: Associative property of addition

13) $(7 + 8) + 4 = 19$

$7 + (8 + 4) = 19$

Property: Associative property of addition

14) $7 \times 9 = 63$

$9 \times 7 = 63$

Property: Commutative property of multiplication

15) $(4 + 8) + 2 = 14$

$4 + (8 + 2) = 14$

Property: Associative property of addition

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