

Algebra

Skill 4 - 3F

Addition Properties

Definitions

Identity Property - When zero is added to any number, the sum is that number.

Example: $32 + 0 = 32$ and $0 + 32 = 32$

Commutative Property - When the order of the numbers in an addition problem is changed, the answer is the same.

Example: $6 + 8 = 8 + 6$

Associative Property - (also called the Grouping Property) When you change the grouping of the addends, the sum stays the same

Example $(4 + 6) + 3 = 4 + (6 + 3)$

Directions: Circle the correct addition property for each problem.

<p>1.</p> $0 + 5 = 5$ <p>A. Identity Property B. Associative Property</p>	<p>2.</p> $2 + 4 = 6$ $4 + 2 = 6$ <p>A. Commutative Property B. Associative Property</p>	<p>3.</p> $(10 + 5) + 3 = 18$ $10 + (5 + 3) = 18$ <p>A. Associative or Grouping Property B. Identity Property</p>
<p>4.</p> $3 + 2 = 5$ $2 + 3 = 5$ <p>A. Identity Property B. Commutative Property</p>	<p>5.</p> $7 + 0 = 7$ <p>A. Associative or Grouping Property B. Identity Property</p>	<p>6.</p> $(5 + 4) + 2 = 11$ $5 + (4 + 2) = 11$ <p>A. Associative or Grouping Property B. Commutative Property</p>
<p>7.</p> $(2 + 3) + 5 = 10$ $2 + (3 + 5) = 10$ <p>A. Identity Property B. Associative or Grouping Property</p>	<p>8.</p> $6 + 5 = 11$ $5 + 6 = 11$ <p>A. Commutative Property B. Associative or Grouping Property</p>	<p>9.</p> $0 + 4 = 4$ <p>A. Associative or Grouping Property B. Identity Property</p>

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Directions: Circle the correct addition property for each problem.

10. $8 + 4 = 12$ $4 + 8 = 12$ A. Commutative Property B. Associative or Grouping Property	11. $10 + 0 = 10$ A. Commutative Property B. Identity Property	12. $7 + 6 = 13$ $6 + 7 = 13$ A. Associative or Grouping Property B. Commutative Property
13. $(3 + 6) + 5 = 14$ $3 + (6 + 5) = 14$ A. Commutative Property B. Associative or Grouping Property	14. $0 + 2 = 2$ A. Identity Property B. Associative Property	15. $(1 + 3) + 2 = 6$ $1 + (3 + 2) = 6$ A. Associative or Grouping Property B. Identity Property
16. $2 + 3 = 5$ $3 + 2 = 5$ A. Identity Property B. Commutative Property	17. $0 + 1 = 1$ A. Commutative Property B. Identity Property	18. $6 + 8 = 14$ $8 + 6 = 14$ A. Associative or Grouping Property B. Commutative Property
19. $(2 + 1) + 3 = 6$ $2 + (1 + 3) = 6$ A. Identity Property B. Associative or Grouping Property	20. $4 + 6 = 10$ $6 + 4 = 10$ A. Commutative Property B. Associative or Grouping Property	21. $5 + 0 = 5$ A. Associative or Grouping Property B. Identity Property
22. $(10 + 5) + 3 = 18$ $10 + (5 + 3) = 18$ A. Identity Property B. Associative or Grouping Property	23. $2 + 4 = 6$ $4 + 2 = 6$ A. Commutative Property B. Associative or Grouping Property	24. $(3 + 6) + 5 = 14$ $3 + (6 + 5) = 14$ A. Associative or Grouping Property B. Identity Property

Answer Key
4-3F
Addition Properties

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|--------------------------------------|--------------------------|--------------------------------------|
| 1. Identity Property | 2. Commutative Property | 3. Associative or Grouping Property |
| 4. Commutative Property | 5. Identity Property | 6. Associative or Grouping Property |
| 7. Associative or Grouping Property | 8. Commutative Property | 9. Identity Property |
| 10. Commutative Property | 11. Identity Property | 12. Commutative Property |
| 13. Associative or Grouping Property | 14. Identity Property | 15. Associative or Grouping Property |
| 16. Commutative Property | 17. Identity Property | 18. Commutative Property |
| 19. Associative or Grouping Property | 20. Commutative Property | 21. Identity Property |
| 22. Associative or Grouping Property | 23. Commutative Property | 24. Associative or Grouping Property |