

NUMBERS OPERATIONS AND PROPERTIES: Identifying Properties

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NAME: _____

1. 010924a, P.I. A.N.1

Which property of real numbers is illustrated by the equation

$$52 + (27 + 36) = (52 + 27) + 36?$$

- [A] associative property
- [B] identity property of addition
- [C] distributive property
- [D] commutative property

2. 080806a, P.I. A.N.1

Which property is illustrated by the equation

$$4x(2x - 1) = 8x^2 - 4x?$$

- [A] identity
- [B] associative
- [C] commutative
- [D] distributive

3. 080802ia, P.I. A.N.1

The statement $2 + 0 = 2$ is an example of the use of which property of real numbers?

- [A] additive inverse
- [B] distributive
- [C] additive identity
- [D] associative

4. 060827a, P.I. A.N.1

Which property is illustrated by the equation

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

- [A] distributive property
- [B] commutative property of addition
- [C] associative property of multiplication
- [D] associative property of addition

5. 010812a, P.I. A.N.1

Which property is represented by the

statement $\frac{1}{2}(6a + 4b) = 3a + 2b?$

- [A] distributive
- [B] identity
- [C] associative
- [D] commutative

6. fall0705ia, P.I. A.N.1

Which property is illustrated by the equation

$$ax + ay = a(x + y)?$$

- [A] commutative
- [B] identity
- [C] associative
- [D] distributive

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7. 060714a, P.I. A.N.1

Which property is illustrated by the equation

$$\frac{3}{2}x + 0 = \frac{3}{2}x?$$

- [A] distributive property
- [B] commutative property of addition
- [C] additive identity property
- [D] additive inverse property

8. 010720a, P.I. A.N.1

If M and A represent integers,

$M + A = A + M$ is an example of which property?

- [A] closure
- [B] distributive
- [C] associative
- [D] commutative

9. 080601a, P.I. A.N.1

While solving the equation $4(x + 2) = 28$,

Becca wrote $4x + 8 = 28$. Which property did she use?

- [A] identity
- [B] associative
- [C] distributive
- [D] commutative

10. 080504a, P.I. A.N.1

The equation $*(\Delta + \Diamond) = * \Delta + * \Diamond$ is an example of the

- [A] commutative law
- [B] distributive law
- [C] transitive law
- [D] associative law

11. 060413a, P.I. A.N.1

Which property of real numbers is illustrated by the equation $-\sqrt{3} + \sqrt{3} = 0$

- [A] additive inverse
- [B] commutative property of addition
- [C] associative property of addition
- [D] additive identity

12. 060306a, P.I. A.N.1

Tori computes the value of 8×95 in her head by thinking $8(100 - 5) = 8 \times 100 - 8 \times 5$.

Which number property is she using?

- [A] commutative
- [B] associative
- [C] closure
- [D] distributive

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[1] A

[2] D

[3] C

[4] B

[5] A

[6] D

[7] C

[8] D

[9] C

[10] B

[11] A

[12] D