1. What property is illustrated by the fact that $(86.5 \cdot 63.9) \cdot 15.3 = 86.5 \cdot (63.9 \cdot 15.3)$?

- [A] commutative property for multiplication
- [B] zero property for multiplication
- [C] associative property for multiplication
- [D] identity property for multiplication
- 2. Name the property of equality that justifies the statement. $5a^2 = 5a^2$
 - [A] Symmetric property
 - [B] Additive identity
 - [C] Transitive property
 - [D] Reflexive property
- 3. What property is illustrated by the fact that $80.8 \cdot 1 = 80.8$?
- 4. What property is illustrated by the fact that $(64.9 \cdot 60.9) \cdot 88.8 = 64.9 \cdot (60.9 \cdot 88.8)$?
- 5. What property is illustrated by the fact that $(81.4 \cdot 43.6) \cdot 0 = 0$?
 - [A] commutative property for multiplication
 - [B] identity property for multiplication
 - [C] zero property for multiplication
 - [D] associative property for multiplication

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6. Which property is illustrated by the following statement?

$$(46.2 + 25.8) + 29.4 = (25.8 + 46.2) + 29.4$$

- [A] addition property of zero
- [B] distributive property of addition
- [C] associative property of addition
- [D] commutative property of addition
- 7. Which property is illustrated by the following statement?

$$(18.8 + 12.9) + 61.4 = (12.9 + 18.8) + 61.4$$

- [A] commutative property of addition
- [B] distributive property of addition
- [C] addition property of zero
- [D] associative property of addition
- 8. (a) Compare: $\frac{5}{16} + \left(\frac{5}{16} + \frac{4}{16}\right)$ $\left(\frac{5}{16} + \frac{5}{16}\right) + \frac{4}{16}$
 - (b) What property is illustrated by this comparison?
- 9. What property is illustrated by the fact that $77.9 \cdot (77.7 \cdot 95) = (77.7 \cdot 95) \cdot 77.9$?
- 10. What is another name for the opposite of a number?

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- 11. Is the equation true or false? If so, what addition property does it illustrate? 59.5 + (72.9 + 10.1) = (59.5 + 72.9) + 10.1
- 12. What property of addition states that the order in which two real numbers are added does not affect the sum?
- 13. What property is illustrated by the fact that $45.7 \cdot (75.6 \cdot 83) = (75.6 \cdot 83) \cdot 45.7$?
 - [A] zero property for multiplication
 - [B] commutative property of multiplication
 - [C] associative property for multiplication
 - [D] identity property for multiplication
- 14. Is the equation true or false? If so, what addition property does it illustrate? (67.5 + 19.5) + 0 = 67.5 + 19.5
- 15. Which property is illustrated by the following statement?

$$(37.5 + 44.2) + 0 = 37.5 + 44.2$$

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

16. Which property is illustrated by the following statement?

$$70.8 + (11.3 + 40.5) = (70.8 + 11.3) + 40.5$$

- [A] commutative property of addition
- [B] distributive property of addition
- [C] associative property of addition
- [D] addition property of zero
- 17. What property is illustrated by the fact that $59.9 \cdot 1 = 59.9$?
 - [A] identity property for multiplication
 - [B] associative property for multiplication
 - [C] commutative property for multiplication
 - [D] zero property for multiplication
- 18. What property is illustrated by the fact that $(90.8 \cdot 88.2) \cdot 0 = 0$?
- 19. Is the equation true or false? If so, what addition property does it illustrate? (30.2 + 24) + 62.2 = (24 + 30.2) + 62.2
- 20. Is the equation true or false? If so, what addition property does it illustrate? 74.4 + (69.9 + 2.2) = (74.4 + 69.9) + (74.4 + 2.2)

[1]	<u>C</u>
[2]	<u>D</u>
[3]	identity property for multiplication
[4]	associative property for multiplication
[5]	<u>C</u>
[6]	<u>D</u>
[7]	<u>A</u>
[8]	(a) = (b) The associative property of addition
[9]	commutative property of multiplication
[10]	Additive inverse
[11]	True. The associative property of addition.
[12]	Commutative property for addition
[13]	<u>B</u>
[14]	True. The addition property of zero.
[15]	<u>A</u>
[16]	<u>C</u>
[17]	<u>A</u>
[18]	zero property for multiplication
[19]	True. The commutative property of addition.
[20]	False