Multiplication Properties

In **1** through **5**, write the multiplication property used in each equation.

1. $53 \times 6 = 6 \times 53$ _____

2. $0 \times 374{,}387 = 0$ _____

3. $5 \times (11 \times 4) = (5 \times 11) \times 4$ _____

4. $42 \times 1 = 42$ _____

5. $14 \times 5 = 5 \times 14$ _____

6. Chan bought 2 large frozen yogurts at $1.50 each and 1 small bottle of water for $1.00. How much did she pay in total?

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7. Dan has 4 shelves. He has exactly 10 books on each shelf. Judy has 10 shelves. She has exactly 4 books on each shelf. Who has more books? Explain.

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8. If $3 \times 8 \times 12 = 8 \times 3 \times n,$ what is the value of n?

A 3   **B** 8   **C** 12   **D** 18

9. Write a definition for the Associative Property of Multiplication in your own words and explain how you would use it to compute $4 \times 25 \times 27$ mentally.

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