## Properties of Operations

Find each missing number. Tell what property or properties are shown.

1. $(32+$ $\qquad$ $)+2+7=32+(14+2)+7$
2. $8+6+12=$ $\qquad$ $+12+6$
$\qquad$
3. $(8 \times$ $\qquad$ ) $\times 7=8 \times(9 \times 7)$
$\qquad$
4. $\qquad$ $+0=34$
$\qquad$
5. $12 \times 3=3 \times$ $\qquad$
$\qquad$
6. $1 \times$ $\qquad$ $=288$
$\qquad$
7. Reasoning Write a number sentence that shows why the associative property does not work with subtraction.
$\qquad$
8. Which property is shown in $(23 \times 5) \times 13 \times 7=23 \times(5 \times 13) \times 7$ ?
A Commutative Property of Multiplication
B Identity Property of Multiplication
C Associative Property of Multiplication
D Associative Property of Addition
9. Writing to Explain Explain why you do not have to do any computing to solve $15 \times 0 \times(13+7)$.
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