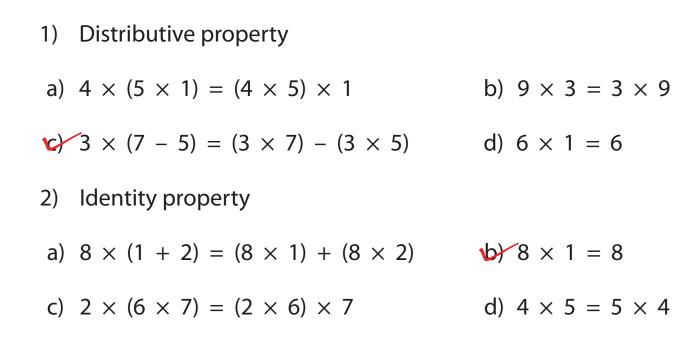# Properties of Multiplication

A) Identify the property used in each statement.

1) $2 \times 3 = 3 \times 2$ **commutative property**

2) $7 \times (8 \times 9) = (7 \times 8) \times 9$ **associative property**

3) $6 \times (4 + 9) = (6 \times 4) + (6 \times 9)$ **distributive property**

B) Choose the statement that illustrates the specified property.

1) Distributive property

a) $4 \times (5 \times 1) = (4 \times 5) \times 1$ b) $9 \times 3 = 3 \times 9$

✓c) $3 \times (7 - 5) = (3 \times 7) - (3 \times 5)$ d) $6 \times 1 = 6$

2) Identity property

a) $8 \times (1 + 2) = (8 \times 1) + (8 \times 2)$ ✓b) $8 \times 1 = 8$

c) $2 \times (6 \times 7) = (2 \times 6) \times 7$ d) $4 \times 5 = 5 \times 4$

C) Write the missing numbers using an appropriate property of multiplication.

1) $1 \times (\underline{\ \textbf{2}\ } + 7) = (1 \times 2) + (1 \times 7)$

2) $(5 \times 3) \times 9 = 5 \times (\underline{\ \textbf{3}\ } \times 9)$

3) $9 \times 8 = 8 \times \underline{\ \textbf{9}\ }$