Properties of Multiplication

A) Identify the property used in each statement.

1) $4 \times 0 = 0$ **zero property**

2) $6 \times 8 = 8 \times 6$ **commutative property**

3) $1 \times (7 \times 3) = (1 \times 7) \times 3$ **associative property**

B) Choose the statement that illustrates the specified property.

1) identity property

   a) $6 \times 3 = 3 \times 6$ ~~b)~~ $9 \times 1 = 9$

   c) $2 \times (4 + 0) = (2 \times 4) + (2 \times 0)$ d) $7 \times 0 = 0$

2) Zero property

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

   c) $9 \times (5 - 2) = (9 \times 5) - (9 \times 2)$ ~~d)~~ $6 \times 0 = 0$

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

1) $4 \times (7 \times \underline{\textbf{8}}) = (4 \times 7) \times 8$

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

3) $8 \times (5 + 4) = (8 \times \underline{\textbf{5}}) + (8 \times 4)$