Properties of multiplication

1. Which expression shows the identity property of multiplication?
   - $2 \times 9 = 9 \times 2$
   - $9 \times 1 = 9$
   - $(9 \times 2) \times 3 = (3 \times 2) \times 9$
   - $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

2. Which expression shows the commutative distribution of multiplication?
   - $2 \times 9 = 9 \times 2$
   - $9 \times 1 = 9$
   - $(9 \times 2) \times 3 = (3 \times 2) \times 9$
   - $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

3. Which expression shows the associative property of multiplication?
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   - $9 \times 1 = 9$
   - $(9 \times 2) \times 3 = (3 \times 2) \times 9$
   - $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

4. Which expression shows the distributive property of multiplication?
   - $2 \times 9 = 9 \times 2$
   - $9 \times 1 = 9$
   - $(9 \times 2) \times 3 = (3 \times 2) \times 9$
   - $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

Identify the multiplication property used in each question below.

1. $6 \times 1 = 6$
   - the property is ____________

2. $a \times (b \times c) = (a \times b) \times c$
   - the property is ____________

3. $9 \times (3 + 7) = (9 \times 3) + (9 \times 7)$
   - the property is ____________

4. $-8 = -8 \times 1$
   - the property is ____________

5. $50 \times 520 = 520 \times 50$
   - the property is ____________
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   - [X] 9×1 = 9
   - [ ] (9×2)×3 = (3×2)×9
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4. Which expression shows the distributive property of multiplication?
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   - [ ] 9×1 = 9
   - [ ] (9×2)×3 = (3×2)×9
   - [X] 4×(5+2) = (4×5) + (4×2)

Identify the multiplication property used in each question below.

1. 6×1 = 6
   - *the property is* identity

2. a×(b×c) = (a×b)×c
   - *the property is* associative

3. 9×(3+7) = (9×3)+(9×7)
   - *the property is* distributive

4. -8 = -8×1
   - *the property is* identity

5. 50×520 = 520×50
   - *the property is* commutative