| Actional wind conception2)Which expression is not equal to $(4 \times 5) \times 8$ 2)Which expression is not equal to $(4 \times 5) \times 8$ 11)Which expression is not equal to $(4 \times 5) \times 8$ 2)11 $A, 15 \times 8$ A, 9 \times 4821 $B, 4 \times 40$ B, 72 \times 521 $C, 4 \times (5 \times 8)$ C, 9 \times 4033 $D, 20 \times 8$ D, 9 \times (8 \times 5)33 3) Which expression is not equal to $(5 \times 6) \times 9$ 4)Which expression is not equal to $(3 \times 10) \times 7$ 4. $A, 30 \times 9$ A, 3 $\times 70$ 8 $B, 24 \times 9$ B, 3 $\times (10 \times 7)$ 8. $C, 5 \times 54$ C, 3 $\times 80$ 6. $D, 5 \times (6 \times 9)$ D, 30 $\times 7$ 7. 5) Which expression is not equal to $3 \times (6 \times 4)$ 6)Which expression is not equal to $9 \times (3 \times 2)$ 8. $A, 3 \times 24$ A. (9 $\times 3$) $\times 2$ 8 $D, (3 \times 6) \times 4$ D, 9 $\times 6$ 10.7)Which expression is not equal to $10 \times (7 \times 9)$ 8.11. $A, (10 \times 7) \times 9$ A, 12 $\times 9$ 11. $A, (10 \times 7) \times 9$ B, 6 $\times 18$ 11. $D, 77 \times 9$ D, 6 $\times (2 \times 9)$ 12.9)Which expression is not equal to $(8 \times 3) \times 2$ 10.10(7 \times 9)A, 12 $\times 9$ 10, 27 \times 2B, (5 $\times 4$) $\times 9$ 11.10.12.D, 10 $\times 79$ 13.C, 10 $\times 63$ 14.C, 10 $\times 9$ 15.C, 10 $\times 63$ 16.C, | Determine which choice is not an equiv | Associative Pr | * * | Answers |
|--|---|----------------|----------------------------------|---------|
| $(4 \times 5) \times 8$ $(9 \times 8) \times 5$ 1. A. 15 × 8 A. 9 × 48 2. B. 4 × 40 B. 72 × 5 2. C. 4 × (5 × 8) C. 9 × 40 3. D. 20 × 8 D. 9 × (8 × 5) 3. 3) Which expression is not equal to $(5 \times 6) \times 9$ A. 30 × 70 B. 24 × 9 B. 3 × (10 × 7) 5. C. 5 × 54 C. 3 × 80 6. D. 5 × (6 × 9) D. 30 × 7 6. S Which expression is not equal to $3 \times (6 \times 4)$ 9 × (3 × 2) A. 3 × 24 A. (9 × 3) × 2 8. B. 12 × 4 C. 9 × 6 10. J. (3 × 6) × 4 D. 9 × 6 10. Mich expression is not equal to $10 \times (7 \times 9)$ A. 12 × 9 D. (3 × 6) × 4 D. 9 × 6 10. J. (10 × 7) × 9 A. 12 × 9 B. 70 × 9 B. 6 × 18 C. 6 + (2 × 9) D. 77 × 9 D. 6 × (2 × 9) 11. J. 7 × 9 D. 6 × (2 × 9) 12. J. 0 × 6 A. (5 × 1 × 9) 5 × (4 × 9) A. 8 × 6 A. (5 × 4) × 9 5 × (4 × 9) B. 27 × 2 </th <th></th> <th></th> <th></th> <th>Answers</th> | | | | Answers |
| A. 15 × 8 A. 9 × 48 2. B. 4 × 40 B. 72 × 5 2. C. 4 × (5 × 8) D. 9 × (8 × 5) 3. J. Which expression is not equal to $(5 × 6) × 9$ A. 3 × 70 A. 3 × 70 B. 24 × 9 B. 3 × (10 × 7) 5. C. 5 × 54 C. 3 × 80 5. D. 5 × (6 × 9) D. 30 × 7 6. 5. Which expression is not equal to $3 × (6 × 4)$ 6. J. 5 × (6 × 9) D. 30 × 7 7. S. Which expression is not equal to $3 × (6 × 4)$ A. (9 × 3) × 2 B. 12 × 4 C. 27 × 2 D. (3 × 6) × 4 D. 9 × 6 7. Mich expression is not equal to $(6 × 2) × 9$ B. 70 × 9 A. 12 × 9 B. 70 × 9 B. 6 × 18 C. 10 × 63 C. 6 + (2 × 9) D. 77 × 9 D. 6 × (2 × 9) 9. Mich expression is not equal to $(8 × 3) × 2$ R. (5 × 4) × 9 E. (5 × 4) × 9 B. 27 × 2 C. 6 + (2 × 9) D. 77 × 9 D. 6 × (2 × 9) 9. Which expression is not equal to $(8 × 3) × 2$ (8 × 3) × 2 B. (5 × 4) × 9 <t< th=""><th></th><th>2)</th><th></th><th>1</th></t<> | | 2) | | 1 |
| B. 4×40 B. 72×5 2. C. $4 \times (5 \times 8)$ C. 9×40 3. D. 20×8 D. $9 \times (8 \times 5)$ 3. 3) Which expression is not equal to $(5 \times 6) \times 9$ A. 30×9 A. 30×7 B. 24×9 B. $3 \times (10 \times 7)$ 5. . C. 5×54 C. 3×80 D. 30×7 5. 5) Which expression is not equal to $3 \times (6 \times 4)$ $9 \times (3 \times 2)$ 6. D. $5 \times (6 \times 9)$ D. 30×7 5. . 5) Which expression is not equal to $3 \times (6 \times 4)$ $9 \times (3 \times 2)$ 8. A. 3×24 A. $(9 \times 3) \times 2$ 8. . B. 12×4 C. 27×2 D. $(3 \times 6) \times 4$ D. 9×6 7) Which expression is not equal to $10 \times (7 \times 9)$ A. 12×9 B. 6×18 D. 11 M. $(10 \times 7) \times 9$ A. 12×9 B. 6×18 D. $5 \times (4 \times 9)$ D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ B. $(5 \times 4) \times 9$ D. $6 \times (2 \times 9)$ D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ B. $(5 \times 4) \times 9$ D. $(5 \times 4) \times 9)$ D. $(5 \times 4$ | | | | II |
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| D. 20×8 D. $9 \times (8 \times 5)$ 3. 3) Which expression is not equal to $(5 \times 6) \times 9$ 4. A. 30×9 A. 3×70 B. 24×9 B. $3 \times (10 \times 7)$ C. 5×54 C. 3×80 D. $5 \times (6 \times 9)$ D. 30×7 5) Which expression is not equal to $3 \times (6 \times 4)$ 6. A. 3×24 B. $3 \times (10 \times 7)$ B. 12×4 C. 3×80 C. 18×4 D. 9×3 C. 18×4 D. 9×6 7) Which expression is not equal to $10 \times (7 \times 9)$ A. $(10 \times 7) \times 9$ A. 12×9 B. 70×9 B. 6×18 C. 10×63 C. $6 + (2 \times 9)$ D. 77×9 D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ 5. A. $(5 \times 4) \times 9$ D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ D. $(5 \times 4) \times 9$ A. $(5 \times 4) \times 9$ D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ D. 20×9 10) Which expression is not equal to $(8 \times 3) \times 2$ D. 20×9 11) | | | | 2 |
| 3) Which expression is not equal to $(5 \times 6) \times 9$ 4) Which expression is not equal to $(3 \times 10) \times 7$ 4.3) Which expression is not equal to $(5 \times 6) \times 9$ 64 | · · · · | | | |
| $(5 \times 6) \times 9$ $(3 \times 10) \times 7$ $(3 \times 10) \times 7$ A. 30×9 B. $3 \times (10 \times 7)$ 5 B. 24×9 B. $3 \times (10 \times 7)$ 6 C. 5×54 C. 3×80 6 D. $5 \times (6 \times 9)$ D. 30×7 6 S $(3 \times 10) \times 7$ 6 J. $3 \times (5 \times 4)$ $9 \times (3 \times 2)$ 8 A. 3×24 $A. (9 \times 3) \times 2$ 8 B. 12×4 $B. 9 \times 3$ 27×2 D. $(3 \times 6) \times 4$ D. 9×6 10 7) Which expression is not equal to $10 \times (7 \times 9)$ $A. 12 \times 9$ 11 A. $(10 \times 7) \times 9$ A. 12×9 10 11 D. 77×9 D. $6 \times (2 \times 9)$ 11 10 Muich expression is not equal to $(6 \times 2) \times 9$ $5 \times (4 \times 9)$ $8 \times (10 \times 7) \times 9$ 12 Muich expression is not equal to $(8 \times 3) \times 2$ $B. 6 \times 18$ 12 12 9) Which expression is not equal to $5 \times (4 \times 9)$ $5 \times (4 \times 9)$ $8 \times (5 \times (3 \times 2))$ $2 \times (5 \times 36)$ 9) D. 20×9 D. 20×9 11 12 Which expression is not equal to $(3 \times 9) \times 7$ | D. 20×8 | | $\mathbf{D},9\times(8\times5)$ | 3 |
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| B. 24×9 B. $3 \times (10 \times 7)$ 5. C. 5×54 C. 3×80 6. D. $5 \times (6 \times 9)$ D. 30×7 7. 5. Which expression is not equal to $3 \times (6 \times 4)$ 9 $\times (3 \times 2)$ 8. A. 3×24 A. $(9 \times 3) \times 2$ 8. B. 12×4 B. 9×3 9. C. 18×4 C. 27×2 9. D. $(3 \times 6) \times 4$ D. 9×6 7) Which expression is not equal to $10 \times (7 \times 9)$ A. 12×9 A. $(10 \times 7) \times 9$ A. 12×9 B. 70×9 B. 6×18 C. 10×63 C. $6 + (2 \times 9)$ D. 77×9 D. $6 \times (2 \times 9)$ 9. Which expression is not equal to $(8 \times 3) \times 2$ B. 27×2 B. $(5 \times 4) \times 9$ C. $3 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11. Which expression is not equal to $(3 \times 9) \times 7$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | | | | |
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| D. $5 \times (6 \times 9)$ D. 30×7 D. 30×7 5) Which expression is not equal to $3 \times (6 \times 4)$ $9 \times (3 \times 2)$ R. 3×24 A. 3×24 A. $(9 \times 3) \times 2$ R. 12×4 R. 9×3 C. 18 $\times 4$ D. 9×6 9. D. $(3 \times 6) \times 4$ D. 9×6 10. 7) Which expression is not equal to $10 \times (7 \times 9)$ R. 12×9 11. A. $(10 \times 7) \times 9$ A. 12×9 11. B. 70×9 C. $6 \times (12 \times 9)$ 11. D. 77×9 D. 6×18 12. 9) Which expression is not equal to $(8 \times 3) \times 2$ R. $(5 \times 4) \times 9$ D. 77×9 D. $6 \times (2 \times 9)$ 12. 9) Which expression is not equal to $(8 \times 3) \times 2$ R. $(5 \times 4) \times 9$ D. 77×9 D. $6 \times (2 \times 9)$ 12. 9) Which expression is not equal to $(8 \times 3) \times 2$ C. 5×36 D. 24×2 D. 20×9 12. 11) Which expression is not equal to $(3 \times 9) \times 7$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 5×6 D. 24×2 D. 20×9 12. <td>B. 24×9</td> <td></td> <td>B. $3 \times (10 \times 7)$</td> <td></td> | B. 24×9 | | B. $3 \times (10 \times 7)$ | |
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| 7) Which expression is not equal to $10 \times (7 \times 9)$ A. $(10 \times 7) \times 9$ B. 70×9 C. 10×63 D. 77×9 8) Which expression is not equal to $(6 \times 2) \times 9$ A. 12×9 B. 6×18 C. $6 + (2 \times 9)$ D. $6 \times (2 \times 9)$ 11.9) Which expression is not equal to $(8 \times 3) \times 2$ A. 8×6 B. 27×2 C. $8 \times (3 \times 2)$ D. 24×2 10) Which expression is not equal to $5 \times (4 \times 9)$ A. $(5 + 4) \times 9$ B. $(5 \times 4) \times 9$ C. 5×36 D. 20×9 10) Which expression is not equal to $(3 \times 9) \times 7$ A. $3 \times (9 \times 7)$ B. 27×7 C. 36×7 10) Which expression is not equal to $4 \times (5 \times 6)$ A. 20×6 B. $(4 \times 5) \times 6$ C. 15×6 10. | | | | |
| $10 \times (7 \times 9)$ $(6 \times 2) \times 9$ 11 A. $(10 \times 7) \times 9$ A. 12×9 B. 70×9 B. 6×18 C. 10×63 C. $6 + (2 \times 9)$ D. 77×9 D. $6 \times (2 \times 9)$ 9)Which expression is not equal to $(8 \times 3) \times 2$ 10)A. 8×6 A. $(5 + 4) \times 9$ B. 27×2 B. $(5 \times 4) \times 9$ C. $8 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11)Which expression is not equal to $(3 \times 9) \times 7$ 12)Which expression is not equal to $(3 \times 7) \times 7$ 12)B. 27×7 C. 36×7 B. $(4 \times 5) \times 6$ C. 15×6 | D. $(3 \times 0) \times 4$ | | $D.9 \times 0$ | 10 |
| $10 \times (7 \times 5)^{\prime}$ $(0 \times 2) \times 5^{\prime}$ A. $(10 \times 7) \times 9$ A. 12×9 B. 70×9 B. 6×18 C. 10×63 C. $6 + (2 \times 9)$ D. 77×9 D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ 10) Which expression is not equal to $5 \times (4 \times 9)$ A. 8×6 A. $(5 + 4) \times 9$ B. 27×2 B. $(5 \times 4) \times 9$ C. $8 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11) Which expression is not equal to $(3 \times 9) \times 7$ 12) Which expression is not equal to $4 \times (5 \times 6)$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 C. 36×7 B. $(4 \times 5) \times 6$ C. 15×6 | 7) Which expression is not equal to | 8) | Which expression is not equal to | |
| B. 70×9 B. 6×18 12.C. 10×63 C. $6 + (2 \times 9)$ D. 77×9 D. 77×9 D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ 10) Which expression is not equal to $5 \times (4 \times 9)$ A. 8×6 A. $(5 + 4) \times 9$ B. 27×2 B. $(5 \times 4) \times 9$ C. $8 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11) Which expression is not equal to $(3 \times 9) \times 7$ 12) Which expression is not equal to $4 \times (5 \times 6)$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | 10	imes ($7	imes 9$) | | (6 × 2) × 9 | 11 |
| D. 10×13 D. 0×16 C. 10×63 C. $6 + (2 \times 9)$ D. 77×9 D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ 10) Which expression is not equal to $5 \times (4 \times 9)$ A. 8×6 A. $(5 + 4) \times 9$ B. 27×2 B. $(5 \times 4) \times 9$ C. $8 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11) Which expression is not equal to $(3 \times 9) \times 7$ 12) Which expression is not equal to $4 \times (5 \times 6)$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | A. $(10 \times 7) \times 9$ | | A. 12 × 9 | |
| D. 77×9 D. $6 \times (2 \times 9)$ 9) Which expression is not equal to $(8 \times 3) \times 2$ 10) Which expression is not equal to $5 \times (4 \times 9)$ A. 8×6 B. 27×2 C. $8 \times (3 \times 2)$ D. 24×2 10) Which expression is not equal to $(3 \times 9) \times 7$ A. $3 \times (9 \times 7)$ B. 27×7 C. 36×7 10) Which expression is not equal to $4 \times (5 \times 6)$ A. 20×6 11) Which expression is not equal to $(3 \times 9) \times 7$ A. $3 \times (9 \times 7)$ B. 27×7 C. 36×7 12) Which expression is not equal to $4 \times (5 \times 6)$ A. 20×6 B. $(4 \times 5) \times 6$ C. 15×6 | B. 70 × 9 | | B. 6 × 18 | 12 |
| 9) Which expression is not equal to $(8 \times 3) \times 2$ 10) Which expression is not equal to $5 \times (4 \times 9)$ A. 8×6 B. 27×2 C. $8 \times (3 \times 2)$ D. 24×2 A. $(5 + 4) \times 9$ B. $(5 \times 4) \times 9$ C. 5×36 D. 20×9 11) Which expression is not equal to $(3 \times 9) \times 7$ A. $3 \times (9 \times 7)$ B. 27×7 C. 36×7 12) Which expression is not equal to $4 \times (5 \times 6)$ A. 20×6 B. $(4 \times 5) \times 6$ C. 15×6 | C. 10 × 63 | | C. $6 + (2 \times 9)$ | |
| $(8 \times 3) \times 2$ $5 \times (4 \times 9)$ A. 8×6 A. $(5 + 4) \times 9$ B. 27×2 B. $(5 \times 4) \times 9$ C. $8 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11) Which expression is not equal to $(3 \times 9) \times 7$ A. 20×6 A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | D. 77 × 9 | | D. $6 \times (2 \times 9)$ | |
| $(8 \times 3) \times 2$ $5 \times (4 \times 9)$ A. 8×6 A. $(5 + 4) \times 9$ B. 27×2 B. $(5 \times 4) \times 9$ C. $8 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11) Which expression is not equal to $(3 \times 9) \times 7$ A. 20×6 A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | 9) Which expression is not equal to | 10) | Which expression is not equal to | |
| B. 27×2 B. $(5 \times 4) \times 9$ C. $8 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11) Which expression is not equal to $(3 \times 9) \times 7$ 12) Which expression is not equal to $4 \times (5 \times 6)$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | | | | |
| B. 27×2 B. $(5 \times 4) \times 9$ C. $8 \times (3 \times 2)$ C. 5×36 D. 24×2 D. 20×9 11) Which expression is not equal to $(3 \times 9) \times 7$ 12) Which expression is not equal to $4 \times (5 \times 6)$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | A. 8 × 6 | | A. $(5+4) \times 9$ | |
| D. 24×2 D. 20×9 D. 20×9 A. $3 \times (9 \times 7)$ B. 27×7 C. 36×7 D. 20×9 D. 20×9 D. 20×9 A. 20×6 B. $(4 \times 5) \times 6$ C. 15×6 | B. 27 × 2 | | | |
| 11) Which expression is not equal to $(3 \times 9) \times 7$ 12) Which expression is not equal to $4 \times (5 \times 6)$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | C. $8 \times (3 \times 2)$ | | C. 5 × 36 | |
| $(3 \times 9) \times 7$ $4 \times (5 \times 6)$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | D. 24 × 2 | | D. 20 × 9 | |
| $(3 \times 9) \times 7$ $4 \times (5 \times 6)$ A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | 1) Which expression is not equal to | 12) | Which expression is not equal to | |
| A. $3 \times (9 \times 7)$ A. 20×6 B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | · I I |) | | |
| B. 27×7 B. $(4 \times 5) \times 6$ C. 36×7 C. 15×6 | | | | |
| C. 36×7 C. 15×6 | , , | | | |
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| 1.4 | Finding Associative Property Name: Answer K etermine which choice is not an equivalent equation. | | | | | | |
|--------------|---|------------|---|--------------------|--|--|--|
| Jete | rmine which choice is not an equivalen | t equation | • | Answers | | | |
| 1) | Which expression is not equal to | 2) | Which expression is not equal to | | | | |
| | $(4 \times 5) \times 8$ | | $(9 \times 8) \times 5$ | 1. <u>A</u> | | | |
| | A. 15 × 8 | | A. 9×48 | | | | |
| | B. 4×40 | | B. 72×5 | 2. <u>A</u> | | | |
| | C. $4 \times (5 \times 8)$ | | C. 9×40 | | | | |
| | D. 20 × 8 | | $D. 9 \times (8 \times 5)$ | 3. <u>B</u> | | | |
| 3) | Which expression is not equal to $(5 \times 6) \times 9$ | 4) | Which expression is not equal to $(3 \times 10) \times 7$ | 4. <u>C</u> | | | |
| | A. 30 × 9 | | A. 3×70 | 5. B | | | |
| | B. 24×9 | | B. $3 \times (10 \times 7)$ | | | | |
| | C. 5×54 | | C. 3 × 80 | 6. B | | | |
| | D. 5 × (6 × 9) | | D. 30 × 7 | | | | |
| 5) | Which expression is not equal to $3 \times (6 \times 4)$ | 6) | Which expression is not equal to $9 \times (3 \times 2)$ | 7. D | | | |
| | A. 3 × 24 | | A. $(9 \times 3) \times 2$ | 8. <u>C</u> | | | |
| | B. 12 × 4 | | B. 9×3 | D | | | |
| | C. 18 × 4 | | C. 27 × 2 | 9. D | | | |
| | D. $(3 \times 6) \times 4$ | | D. 9 × 6 | 10. A | | | |
| 7) | Which expression is not equal to $10 \times (7 \times 9)$ | 8) | Which expression is not equal to $(6 \times 2) \times 9$ | 11. C | | | |
| | A. (10×7) $\times 9$ | | A. 12 × 9 | | | | |
| | B. 70 × 9 | | B. 6 × 18 | 12. <u>C</u> | | | |
| | C. 10 × 63 | | C. $6 + (2 \times 9)$ | | | | |
| | D. 77 × 9 | | D. $6 \times (2 \times 9)$ | | | | |
| 9) | Which expression is not equal to $(8 \times 3) \times 2$ | 10) | Which expression is not equal to $5 \times (4 \times 9)$ | | | | |
| | $A.8 \times 6$ | | A. $(5+4) \times 9$ | | | | |
| | B. 27×2 | | B. $(5 \times 4) \times 9$ | | | | |
| | C. $8 \times (3 \times 2)$ | | $C.5 \times 36$ | | | | |
| | D. 24 × 2 | | D. 20 × 9 | | | | |
| l 1) | Which expression is not equal to $(3 \times 9) \times 7$ | 12) | Which expression is not equal to $4 \times (5 \times 6)$ | | | | |
| | A. $3 \times (9 \times 7)$ | | A. 20×6 | | | | |
| | B. 27×7 | | B. $(4 \times 5) \times 6$ | | | | |
| | C. 36 × 7 | | C. 15 × 6 | | | | |
| | D. 3 × 63 | | D. 4 × 30 | | | | |

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| etermine which choice is not an equivalent equation. | | | | |
|--|---|-----|--|------------------|
| 1) | Which expression is not equal to | 2) | Which expression is not equal to | |
| _, | $(6 \times 4) \times 10$ | _, | $(8 \times 2) \times 10$ | 1. |
| | A. 6×36 | | A. 16 × 10 | |
| | B. 24×10 | | B. 8×20 | 2. |
| | C. $6 \times (4 \times 10)$ | | C. 8 × (2 × 10) | |
| | D. 6 × 40 | | D. $8 + (2 \times 10)$ | 3 |
| 3) | Which expression is not equal to $3 \times (9 \times 10)$ | 4) | Which expression is not equal to $4 \times (2 \times 7)$ | 4 |
| | A. $(3 \times 9) \times 10$ | | A. $(4 \times 2) \times 7$ | |
| | $B. 27 \times 10$ | | $B.4 \times 14$ | 5 |
| | $C. 18 \times 10$ | | $C. 8 \times 7$ | |
| | D. 3×90 | | $D.6 \times 7$ | 6 |
| | D . 5 × 70 | | $D.0 \wedge 7$ | |
| 5) | Which expression is not equal to | െ | Which expression is not equal to | 7 |
| ., | $10 \times (4 \times 5)$ | 0) | $10 \times (9 \times 5)$ | |
| | A. 10×20 | | A. 90×5 | 8 |
| | B. 44 × 5 | | B. $(10 \times 9) \times 5$ | |
| | C. $(10 \times 4) \times 5$ | | C. $(10+9) \times 5$ | 9. |
| | D. 40×5 | | D. 10×45 | |
| | D. 10 × 3 | | D. 10 × 15 | 10 |
| 7) | Which expression is not equal to | 8) | Which expression is not equal to | |
| ., | $(6 \times 3) \times 5$ | 0) | $(7 \times 5) \times 9$ | 11 |
| | A. $6 \times (3 \times 5)$ | | A. 35 × 9 | |
| | B. 6×15 | | B. $7 \times (5 \times 9)$ | 12. |
| | $C. 15 \times 5$ | | $C.7 \times 45$ | |
| | D. 18 × 5 | | D. $7 + (5 \times 9)$ | |
| 9) | Which expression is not equal to | 10) | Which expression is not equal to | |
| | $4 \times (9 \times 2)$ | | $3 \times (10 \times 7)$ | |
| | A. $(4 \times 9) \times 2$ | | A. $(3 \times 10) \times 7$ | |
| | B. 4 × 18 | | B. 30 × 7 | |
| | C. 36×2 | | C. 3 × 70 | |
| | D. 27 × 2 | | D. 20 × 7 | |
| 1) | Which expression is not equal to | 12) | Which expression is not equal to | |
| | $(6 \times 7) \times 8$ | | $(2 \times 8) \times 4$ | |
| | A. 42×8 | | A. $2 + (8 \times 4)$ | |
| | B. $6 \times (7 \times 8)$ | | B. 2×32 | |
| | C. 6 × 56 | | C. $2 \times (8 \times 4)$ | |
| | D. $6 + (7 \times 8)$ | | D. 16×4 | |
| | | | 1 -10 92 83 75 67 | 58 50 42 33 25 1 |

| | Finding As | ssociative Pr | operty Name: | Answer | Key |
|------|---|---------------|---|-------------|----------------------------|
| Dete | ermine which choice is not an equiva | | - · · | | Answers |
| 1) | Which expression is not equal to (6×4) × 10 A. 6×36 B. 24×10 C. $6 \times (4 \times 10)$ | 2) | Which expression is not equal to (8×2) × 10 A. 16×10 B. 8×20 C. $8 \times (2 \times 10)$ | | 1. <u>A</u> 2. <u>D</u> |
| | D. 6 × 40 | | D. $8 + (2 \times 10)$ | | 3. <u>C</u> |
| 3) | Which expression is not equal to $3 \times (9 \times 10)$ | 4) | Which expression is not equal to $4 \times (2 \times 7)$ | | 4. D |
| | A. $(3 \times 9) \times 10$ | | A. $(4 \times 2) \times 7$ | | 5. B |
| | B. 27 × 10 C. 18 × 10 | | B. 4 × 14 C. 8 × 7 | | C |
| | D. 3×90 | | D. 6×7 | | 6 |
| 5) | Which expression is not equal to | 6) | Which expression is not equal to | | 7. <u>C</u> |
| | $10 \times (4 \times 5)$ A. 10×20 | | $10 \times (9 \times 5)$ A. 90 × 5 | | 8. D |
| | $\mathbf{B.}\ 44\times5$ | | A. 90×3 B. $(10 \times 9) \times 5$ | | |
| | C. $(10 \times 4) \times 5$ | | C. $(10+9) \times 5$ | | 9. D |
| | D. 40×5 | | D. 10×45 | | n n |
| | | | | | 10. D |
| 7) | Which expression is not equal to $(6 \times 3) \times 5$ | 8) | Which expression is not equal to $(7 \times 5) \times 9$ | | 11. D |
| | A. $6 \times (3 \times 5)$ | | A. 35 × 9 | | |
| | B. 6 × 15 | | B. $7 \times (5 \times 9)$ | | 12. A |
| | C. 15 × 5 D. 18 × 5 | | C. 7×45 | | |
| | $\mathbf{D}.\ 18\times3$ | | D. 7 + (5×9) | | |
| 9) | Which expression is not equal to $4 \times (9 \times 2)$ | 10) | Which expression is not equal to $3 \times (10 \times 7)$ | | |
| | A. $(4 \times 9) \times 2$ | | A. $(3 \times 10) \times 7$ | | |
| | B. 4 × 18 | | B. 30×7 | | |
| | C. 36×2 | | C. 3×70 | | |
| | D. 27 × 2 | | D. 20 × 7 | | |
| 11) | Which expression is not equal to $(6 \times 7) \times 8$ | 12) | Which expression is not equal to $(2 \times 8) \times 4$ | | |
| | A. 42×8 | | A. 2 + (8 × 4) | | |
| | B. $6 \times (7 \times 8)$ | | B. 2×32 | | |
| | $C.6 \times 56$ | | $C. 2 \times (8 \times 4)$ | | |
| | D. $6 + (7 \times 8)$ | | D. 16 × 4 | | |
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| 1) Which expression is not equal to $(5 \times 7) \times 2$ A, 5×14 B, $5 \times (7 \times 2)$ C, 5×21 D, 35×2 3) Which expression is not equal to $5 \times (8 \times 6)$ A, $(5 + 8) \times 6$ B, $5 \times (8 \times 6)$ A, $(5 + 8) \times 6$ B, $5 \times (8 \times 6)$ A, $(5 + 8) \times 6$ B, $5 \times (8 \times 6)$ A, $(5 + 8) \times 6$ B, 5×48 B, $(4 \times 5) \times 9$ A, $(5 + 8) \times 6$ D, $(5 \times 8) \times 6$ Which expression is not equal to (8 \times 5) \times 2 A, $4 \times (5 \times 9)$ A, $(6 \times 5) \times 2$ A, (0×2) B, $8 \times (5 \times 2)$ C, (10×4) A, 40×2 B, $8 \times (5 \times 2)$ C, (10×4) A, 40×2 B, $8 \times (5 \times 2)$ C, $(10 \times 3) \times 9$ D, 35×2 D, $(10 \times 3) \times 9$ D, 35×2 D, $(10 \times 3) \times 9$ Which expression is not equal to ($5 \times 7) \times 2$ A, $(2 \times 8) \times 4$ B, $5 \times (7 \times 2)$ C, 8×10 D, $(10 \times 3) \times 9$ Which expression is not equal to ($5 \times 7) \times 2$ D, 23×2 D, 23×2 D, 23×40 D, 35×2 D, 2×40 D, 35×3 D, $(2 \times 10) \times 4$ H) Which expression is not equal to ($5 \times 7) \times 3$ B, 16×4 C, 5×14 D, 35×3 D, $(2 \times 10) \times 4$ H) Which expression is not equal to ($7 \times 10 \times 8$ A, 22×30 B, $(5 \times 7) \times 3$ D, $(2 \times 10) \times 4$ H) Which expression is not equal to ($7 \times 10 \times 8$ A, 70×8 B, $7 \times (10 \times 8)$ C, 7×80 D, (0×5) A, 70×8 B, 7×10 D, 60×8 D, 90×5 D, 90×5 D, 90×5 | Dete | Finding Asso rmine which choice is not an equivalen | | * * | Answers |
|--|------|--|-----|-----------------------------------|---------|
| $(5 \times 7) \times 2$ $4 \times (10 \times 2)$ 1. $A, 5 \times 14$ $A, 4 \times 20$ 1. $B, 5 \times (7 \times 2)$ $B, (4 \times 10) \times 2$ 2. $C, 5 \times 21$ $C, (4 + 10) \times 2$ 3. $D, 35 \times 2$ $D, 40 \times 2$ 3. 3) Which expression is not equal to $5 \times (8 \times 6)$ $A, 15 \times 9$ $A, (5 + 8) \times 6$ $A, 15 \times 9$ $B, 5 \times 48$ $B, (4 \times 5) \times 9$ $C, 40 \times 6$ $C, 4 \times 45$ $D, (5 \times 8) \times 6$ $D, 20 \times 9$ 5) Which expression is not equal to $(0 \times (3 \times 9))$ $A, 40 \times 2$ $A, 30 \times 9$ $B, 8 \times (5 \times 2)$ $B, 10 \times 27$ $C, 8 \times 10$ $C, (10 + 3) \times 9$ $D, 35 \times 2$ $D, (10 \times 3) \times 9$ $0, 35 \times 2$ $D, (10 \times 3) \times 9$ $0, 35 \times 2$ $D, (10 \times 3) \times 9$ $0, 5 \times 71 \times 2$ $A, (2 \times 8) \times 4$ $B, 5 \times (7 \times 2)$ $B, 16 \times 4$ $C, 5 \times 14$ $C, 2 \times 32$ $D, 35 \times 2$ $D, 2 \times 40$ 9) Which expression is not equal to $2 \times (10 \times 4)$ $5 \times (7 \times 3)$ $A, 2 \times 30$ $B, (5 \times 7) \times 3$ $B, 2 \times 40$ < | 1) | Which expression is not equal to | 2) | Which expression is not equal to | |
| B. $5 \times (7 \times 2)$ B. $(4 \times 10) \times 2$ 2. C. 5×21 C. $(4 + 10) \times 2$ 3. J. Mich expression is not equal to 4. 4. $5 \times (8 \times 6)$ A. 15×9 5. A. $(5 + 8) \times 6$ A. 15×9 5. B. 5×48 B. $(4 \times 5) \times 9$ 6. C. 40×6 C. 4×45 6. D. $(5 \times 8) \times 6$ D. 20×9 7. 5 Which expression is not equal to 6. 7. $(8 \times 5) \times 2$ A. 30×9 8. 8. B. $8 \times (5 \times 2)$ B. 10×27 7. 8. C. $(10 + 3) \times 9$ D. $(10 \times 3) \times 9$ 9. 9. D. 35×2 D. $(10 \times 3) \times 9$ 9. 10. 7) Which expression is not equal to $2 \times (8 \times 4)$ 11. A. 42×2 A. $(2 \times 8) \times 4$ 12. 12. D. 35×2 D. 2×40 12. 12. 9) Which expression is not equal to $2 \times (10 \times 4)$ 12. $(5 \times 7) \times 3$ B. 2×40 $2 \times (10 \times 4)$ 12. 9) Which expression is | · | | | | 1 |
| C. 5×21 C. $(4 + 10) \times 2$ 3. J. 35×2 D. 40×2 3. 3) Which expression is not equal to $5 \times (8 \times 6)$ A. 15×9 A. $(5 + 8) \times 6$ A. $(5 + 8) \times 6$ A. 15×9 S. B. 5×48 B. $(4 \times 5) \times 9$ G. C. 4×45 D. $(5 \times 8) \times 6$ D. 20×9 5) Which expression is not equal to $(8 \times 5) \times 2$ A. 30×9 B. A. 40×2 A. 30×9 B. B. $8 \times (5 \times 2)$ B. 10×27 C. $(10 + 3) \times 9$ C. 8×10 C. $(10 + 3) \times 9$ D. D. 35×2 D. $(10 \times 3) \times 9$ II. 7) Which expression is not equal to $(5 \times 7) \times 2$ A. $(2 \times 8) \times 4$ II. B. $5 \times (7 \times 2)$ B. 16×4 C. 2×32 D. 35×2 D. $2 \times (10 \times 4)$ II. Mich expression is not equal to $5 \times (7 \times 3)$ A. 2×30 B. 2×40 D. $5 \times (7 \times 3)$ D. 2×40 II. J. 28×3 B. 2×40 C. 5×21 D. 35×3 D. $(2 \times 10) \times 4$ II. HI) Which expression is not equal to $5 \times (10 \times 8)$ D. $(2 \times 10) \times 4$ | | A. 5 × 14 | | A. 4×20 | |
| D. 35×2 D. 40×2 3. 3) Which expression is not equal to $5 \times (8 \times 6)$ 4) Which expression is not equal to $4 \times (5 \times 9)$ 4. A. $(5 + 8) \times 6$ A. 15×9 5. B. 5×48 B. $(4 \times 5) \times 9$ 6. C. 40×6 C. 4×45 6. D. $(5 \times 8) \times 6$ D. 20×9 7. 5) Which expression is not equal to $(8 \times 5) \times 2$ 6. 8. A. 40×2 A. 30×9 8. B. $8 \times (5 \times 2)$ B. 10×27 8. C. 8×10 C. $(10 + 3) \times 9$ 9. D. 35×2 D. $(10 \times 3) \times 9$ 10. 7) Which expression is not equal to $(5 \times 7) \times 2$ 8. 11. A. 42×2 A. $(2 \times 8) \times 4$ 11. A. 42×2 D. $2 \times (10 \times 4)$ 12. D. 35×2 D. 2×40 12. 9) Which expression is not equal to $5 \times (7 \times 3)$ A. 2×30 B. 2×40 A. 28×3 A. 2×30 B. 2×40 12. 9) Which expression is not equal to $(7 \times 10) \times 8$ A. 9×60 $9 \times (10 \times 5)$ A. 70×8 A. 9×60 $9 \times (10 \times 5)$ | | B. $5 \times (7 \times 2)$ | | B. (4×10) $\times 2$ | 2. |
| 3) Which expression is not equal to $5 \times (8 \times 6)$ 4) Which expression is not equal to $4 \times (5 \times 9)$ 4.3) Which expression is not equal to $5 \times (8 \times 6)$ 4) (5×9) 5.4 | | C. 5 × 21 | | C. (4+10)×2 | |
| $5 \times (8 \times 6)$ $4 \times (5 \times 9)$ 1 $1 \times (5 \times 9)$ $A. (5 + 8) \times 6$ $A. 15 \times 9$ $5.$ $6.$ $B. 5 \times 48$ $B. (4 \times 5) \times 9$ $6.$ $C. 40 \times 6$ $D. 20 \times 9$ $6.$ $D. (5 \times 8) \times 6$ $D. 20 \times 9$ $6.$ $5.$ $B. 8. (4 \times 5) \times 9$ $6.$ $C. 40 \times 6$ $D. 20 \times 9$ $6.$ $5.$ $D. (5 \times 8) \times 6$ $D. 20 \times 9$ $6.$ $D. 20 \times 9$ $8.$ $8. \times 5 \times 2$ $10 \times (3 \times 9)$ $A. 40 \times 2$ $B. 10 \times 27$ $B. 8 \times (5 \times 2)$ $C. (10 + 3) \times 9$ $D. 35 \times 2$ $D. (10 \times 3) \times 9$ $7.$ M $2 \times (8 \times 4)$ $A. 42 \times 2$ $A. (2 \times 8) \times 4$ $B. 5 \times (7 \times 2)$ $B. 16 \times 4$ $C. 5 \times 14$ $C. 2 \times 32$ $D. 35 \times 2$ $D. 2 \times 40$ 9) Which expression is not equal to $5 \times (7 \times 3)$ $A. 2 \times 30$ $B. (5 \times 7) \times 3$ $B. 2 \times 40$ $C. 5 \times 14$ $D. (2 \times 10) \times 4$ $11.$ $C. 20 \times 4$ $D. 35 \times 3$ < | | D. 35 × 2 | | D. 40×2 | 3 |
| A. $(5+8) \times 6$ A. 15×9 5.B. 5×48 B. $(4 \times 5) \times 9$ 6.C. 40×6 C. 4×45 6.D. $(5 \times 8) \times 6$ D. 20×9 7.5)Which expression is not equal to $(8 \times 5) \times 2$ 6.7.A. 40×2 A. 30×9 8.B. $8 \times (5 \times 2)$ B. $10 \times (3 \times 9)$ 8.D. 35×2 D. $(10 \times 3) \times 9$ 9.0. 35×2 D. $(10 \times 3) \times 9$ 10.7)Which expression is not equal to $(5 \times 7) \times 2$ 8.A. 42×2 A. $(2 \times 8) \times 4$ B. $5 \times (7 \times 2)$ B. 16×4 C. 5×14 C. 2×32 D. 35×2 D. 2×40 9)Which expression is not equal to $5 \times (7 \times 3)$ 10)A. 28×3 A. 2×30 B. $(5 \times 7) \times 3$ B. 2×40 C. 5×21 C. 20×4 D. 35×3 D. $(2 \times 10) \times 4$ 11)Which expression is not equal to $5 \times (7 \times 3)$ A. 28×3 A. 2×30 B. $(5 \times 7) \times 3$ D. $(2 \times 10) \times 4$ 12)Which expression is not equal to $9 \times (10 \times 5)$ A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | 3) | | 4) | | 4 |
| B. 5×48 B. $(4 \times 5) \times 9$ 3. C. 40×6 C. 4×45 6. D. $(5 \times 8) \times 6$ D. 20×9 7. 5) Which expression is not equal to $(8 \times 5) \times 2$ 6. 7. A. 40×2 A. 30×9 8. 9. B. $8 \times (5 \times 2)$ B. 10×27 9. 9. C. 8×10 C. $(10 + 3) \times 9$ 9. 10. D. 35×2 D. $(10 \times 3) \times 9$ 10. 11. A. 42×2 A. $(2 \times 8) \times 4$ 11. 11. A. 42×2 B. $5 \times (7 \times 2)$ B. 16×4 12. D. 35×2 D. 2×40 11. 12. 9) Which expression is not equal to $5 \times (7 \times 3)$ A. 2×32 D. 2×40 9) Which expression is not equal to $5 \times (7 \times 3)$ B. 2×40 12. 9) Which expression is not equal to $5 \times (7 \times 3)$ D. $(2 \times 10) \times 4$ 14. 11) Which expression is not equal to $(7 \times 10) \times 8$ A. 9×60 9. 9×60 11) Which expression is not equal to $(7 \times 10) \times 8$ A. 9×60 9. 9×60 B. $7 \times (10 \times 8)$ | | | | | |
| C. 40×6 C. 4×45 6. D. $(5 \times 8) \times 6$ D. 20×9 7. 5) Which expression is not equal to $(8 \times 5) \times 2$ 0 Which expression is not equal to $10 \times (3 \times 9)$ 8. A. 40×2 A. 30×9 8. . B. $8 \times (5 \times 2)$ B. 10×27 9. . C. 8×10 C. $(10 + 3) \times 9$ 9. . D. 35×2 D. $(10 \times 3) \times 9$ 10. . 7) Which expression is not equal to $(5 \times 7) \times 2$ 8. . . A. 42×2 A. $(2 \times 8) \times 4$ 11. . . A. 42×2 B. $5 \times (7 \times 2)$ B. 16×4 12. . D. 35×2 D. 2×40 11. . . 9) Which expression is not equal to $5 \times (7 \times 3)$ D. 2×40 12. . 9) Which expression is not equal to $5 \times (7 \times 3)$ D. 2×40 . . 10. 5×3 D. $2 \times 10 \times 4$. . . 11. 9) Which expression is not equal to $(7 \times $ | | | | | 5 |
| D. $(5 \times 8) \times 6$ D. 20×9 0 | | | | | |
| 5) Which expression is not equal to $(8 \times 5) \times 2$ 6) Which expression is not equal to $10 \times (3 \times 9)$ 7. A. 40 × 2 A. 30 × 9 8. | | | | | 6 |
| 5) Which expression is not equal to $(8 \times 5) \times 2$ A. 40 × 2 B. 8 × (5 × 2) C. 8 × 10 D. 35 × 2 7) Which expression is not equal to $(5 \times 7) \times 2$ A. 42 × 2 B. 5 × (7 × 2) D. 35 × 2 7) Which expression is not equal to $(5 \times 7) \times 2$ A. 42 × 2 B. 5 × (7 × 2) D. 35 × 2 7) Which expression is not equal to $(5 \times 7) \times 2$ A. (2 × 8) × 4 B. 5 × (7 × 2) D. 35 × 2 7) Which expression is not equal to $(5 \times 7) \times 2$ A. (2 × 8) × 4 B. 5 × (7 × 2) D. 2 × 40 11 | | D. $(5 \times 8) \times 6$ | | D. 20×9 | |
| $(8 \times 5) \times 2$ $10 \times (3 \times 9)$ 8 $A. 40 \times 2$ $A. 30 \times 9$ $B. 8 \times (5 \times 2)$ $B. 10 \times 27$ $C. 8 \times 10$ $C. (10 + 3) \times 9$ $D. 35 \times 2$ $D. (10 \times 3) \times 9$ 7) Which expression is not equal to $(5 \times 7) \times 2$ $B. 16 \times 4$ $A. 42 \times 2$ $A. (2 \times 8) \times 4$ $B. 5 \times (7 \times 2)$ $B. 16 \times 4$ $C. 5 \times 14$ $C. 2 \times 32$ $D. 35 \times 2$ $D. 2 \times 40$ 9) Which expression is not equal to $5 \times (7 \times 3)$ $A. 28 \times 3$ $A. 2 \times 30$ $B. (5 \times 7) \times 3$ $B. 2 \times 40$ 7) Which expression is not equal to $5 \times (7 \times 3)$ $A. 28 \times 3$ $A. 2 \times 30$ $B. (5 \times 7) \times 3$ $B. 2 \times 40$ $D. 35 \times 3$ $D. (2 \times 10) \times 4$ 11) Which expression is not equal to $7 \times (10 \times 4)$ $A. 70 \times 8$ $A. 9 \times 60$ $B. 7 \times (10 \times 8)$ $B. 9 \times 50$ $C. 7 \times 80$ $C. (9 \times 10) \times 5$ | 5) | **** | 0 | XX71 · 1 · · · · · 1 / | 7 |
| A. 40×2 A. 30×9 8.B. $8 \times (5 \times 2)$ B. 10×27 C. 8×10 C. $(10 + 3) \times 9$ D. 35×2 D. $(10 \times 3) \times 9$ 7)Which expression is not equal to $(5 \times 7) \times 2$ 8.A. 42×2 A. $(2 \times 8) \times 4$ B. $5 \times (7 \times 2)$ B. 16×4 C. 5×14 C. 2×32 D. 35×2 D. 2×40 9)Which expression is not equal to $2 \times (10 \times 4)$ 9)Which expression is not equal to $2 \times (10 \times 4)$ 9)Which expression is not equal to $5 \times (7 \times 3)$ 10)Which expression is not equal to $2 \times (10 \times 4)$ 11)Which expression is not equal to $2 \times (10 \times 4)$ 12)Which expression is not equal to $(7 \times 10) \times 8$ 11)Which expression is not equal to $(7 \times 10) \times 8$ A. 70×8 A. 9×60 $B. 7 \times (10 \times 8)B. 7 \times (10 \times 8)B. 9 \times 50C. 7 \times 8011)B. 9 \times 50C. (9 \times 10) \times 5$ | 5) | | 0) | | |
| B. $8 \times (5 \times 2)$ B. 10×27 9. C. 8×10 C. $(10 + 3) \times 9$ 10. D. 35×2 D. $(10 \times 3) \times 9$ 10. 7) Which expression is not equal to $(5 \times 7) \times 2$ A. $(2 \times 8) \times 4$ 11. A. 42×2 A. $(2 \times 8) \times 4$ 11. B. $5 \times (7 \times 2)$ B. 16×4 12. C. 5×14 C. 2×32 10. D. 35×2 D. 2×40 12. 9) Which expression is not equal to $5 \times (7 \times 3)$ A. 2×30 12. B. $(5 \times 7) \times 3$ B. 2×40 12. II) Which expression is not equal to $5 \times (7 \times 3)$ D. $(2 \times 10) \times 4$ 14. II) Which expression is not equal to $(7 \times 10) \times 8$ D. $(2 \times 10) \times 4$ 14. II) Which expression is not equal to $(7 \times 10) \times 8$ A. 9×60 $8 \cdot 9 \times 50$ $8 \cdot 9 \times 50$ B. $7 \times (10 \times 8)$ B. 9×50 C. $(9 \times 10) \times 5$ $8 \cdot 9 \times 50$ $8 \cdot 9 \times 50$ | | | | | 8. |
| C. 8×10 C. $(10 + 3) \times 9$ 9.D. 35×2 D. $(10 \times 3) \times 9$ 10.7) Which expression is not equal to $(5 \times 7) \times 2$ 8) Which expression is not equal to $2 \times (8 \times 4)$ 11.A. 42×2 A. $(2 \times 8) \times 4$ B. $5 \times (7 \times 2)$ B. 16×4 12.C. 5×14 C. 2×32 D. 35×2 D. 2×40 9) Which expression is not equal to $5 \times (7 \times 3)$ 10) Which expression is not equal to $2 \times (10 \times 4)$ 12.9) Which expression is not equal to $5 \times (7 \times 3)$ 10) Which expression is not equal to $2 \times (10 \times 4)$ 12.9) Which expression is not equal to $5 \times (7 \times 3)$ 10) Which expression is not equal to $2 \times (10 \times 4)$ 12.10) Ublick expression is not equal to $2 \times (10 \times 4)$ 13.14.11) Which expression is not equal to $(7 \times 10) \times 8$ 12.12.11) Which expression is not equal to $9 \times (10 \times 5)$ 12.12.11) Which expression is not equal to $(7 \times 10) \times 8$ 12.12.12) Which expression is not equal to $9 \times (10 \times 5)$ 13.14.13) Which expression is not equal to $9 \times (10 \times 5)$ 14.14.14) Which expression is not equal to $(7 \times 10) \times 8$ 12.12.15) C. 7×80 12.13.14.16) C. $(9 \times 10) \times 5$ 13.14. | | | | | |
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| 7) Which expression is not equal to $(5 \times 7) \times 2$ 8) Which expression is not equal to $2 \times (8 \times 4)$ 10.A. 42×2 B. $5 \times (7 \times 2)$ C. 5×14 D. 35×2 A. $(2 \times 8) \times 4$ B. 16×4 C. 2×32 D. 2×40 11.9) Which expression is not equal to $5 \times (7 \times 3)$ A. 28×3 B. $(5 \times 7) \times 3$ C. 5×21 D. 35×3 10) Which expression is not equal to $2 \times (10 \times 4)$ A. 28×3 B. $(5 \times 7) \times 3$ C. 5×21 D. 35×3 10) Which expression is not equal to $2 \times (10 \times 4)$ A. 22×30 B. 2×40 12)11) Which expression is not equal to $(7 \times 10) \times 8$ A. 70×8 B. $7 \times (10 \times 8)$ C. 7×80 12) Which expression is not equal to 9×50 C. $(9 \times 10) \times 5$ | | | | | |
| $(5 \times 7) \times 2$ $2 \times (8 \times 4)$ 11.A. 42×2 A. $(2 \times 8) \times 4$ B. $5 \times (7 \times 2)$ B. 16×4 C. 5×14 C. 2×32 D. 35×2 D. 2×40 9) Which expression is not equal to $5 \times (7 \times 3)$ 10) Which expression is not equal to $2 \times (10 \times 4)$ A. 28×3 A. 2×30 B. $(5 \times 7) \times 3$ B. 2×40 C. 5×21 C. 20×4 D. 35×3 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ A. 70×8 12) Which expression is not equal to $9 \times (10 \times 5)$ A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ C. 7×80 B. 9×50 C. $(9 \times 10) \times 5$ | | $D.33 \times 2$ | | $\mathbf{D}.(10\times 3)\times 9$ | 10 |
| $(3 \times 7) \times 2$ $2 \times (3 \times 4)$ A. 42×2 A. $(2 \times 8) \times 4$ B. $5 \times (7 \times 2)$ B. 16×4 C. 5×14 C. 2×32 D. 35×2 D. 2×40 9) Which expression is not equal to $5 \times (7 \times 3)$ 10) Which expression is not equal to $2 \times (10 \times 4)$ A. 28×3 A. 2×30 B. $(5 \times 7) \times 3$ B. 2×40 C. 5×21 C. 20×4 D. 35×3 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ A. 70×8 12) Which expression is not equal to $9 \times (10 \times 5)$ A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ C. 7×80 B. 9×50 C. $(9 \times 10) \times 5$ | 7) | Which expression is not equal to | 8) | Which expression is not equal to | |
| B. $5 \times (7 \times 2)$ B. 16×4 12. C. 5×14 C. 2×32 D. 2×40 9) Which expression is not equal to $5 \times (7 \times 3)$ D. 2×40 4. 28×3 A. 2×30 B. $(5 \times 7) \times 3$ B. 2×40 C. 5×21 D. 2×40 D. 35×3 B. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ D. $(2 \times 10) \times 4$ A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | $(5 \times 7) \times 2$ | | $2 \times (8 \times 4)$ | 11 |
| D. $3 \times (1 \times 2)$ D. 10×1 C. 5×14 C. 2×32 D. 35×2 D. 2×40 9) Which expression is not equal to $5 \times (7 \times 3)$ 10) Which expression is not equal to $2 \times (10 \times 4)$ A. 28×3 A. 2×30 B. $(5 \times 7) \times 3$ B. 2×40 C. 5×21 C. 20×4 D. 35×3 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ 12)A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | A. 42×2 | | A. $(2 \times 8) \times 4$ | |
| D. 35×2 D. 2×40 9) Which expression is not equal to $5 \times (7 \times 3)$ A. 28×3 B. $(5 \times 7) \times 3$ C. 5×21 D. 35×3 10) Which expression is not equal to $2 \times (10 \times 4)$ A. 2×30 B. 2×40 C. 20×4 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ A. 70×8 B. $7 \times (10 \times 8)$ C. 7×80 12) Which expression is not equal to $9 \times (10 \times 5)$ A. 9×60 B. 9×50 C. $(9 \times 10) \times 5$ | | B. $5 \times (7 \times 2)$ | | B. 16 × 4 | 12 |
| 9) Which expression is not equal to $5 \times (7 \times 3)$ A. 28×3 B. $(5 \times 7) \times 3$ C. 5×21 D. 35×3 10) Which expression is not equal to $2 \times (10 \times 4)$ A. 2×30 B. 2×40 C. 20×4 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ A. 70×8 B. $7 \times (10 \times 8)$ C. 7×80 10) Which expression is not equal to $9 \times (10 \times 5)$ A. 9×60 B. 9×50 C. $(9 \times 10) \times 5$ | | C. 5 × 14 | | C. 2×32 | |
| $5 \times (7 \times 3)$ $2 \times (10 \times 4)$ A. 28×3 A. 2×30 B. $(5 \times 7) \times 3$ B. 2×40 C. 5×21 C. 20×4 D. 35×3 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ A. 9×60 A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | D. 35 × 2 | | D. 2×40 | |
| A. 28×3 A. 2×30 B. $(5 \times 7) \times 3$ B. 2×40 C. 5×21 C. 20×4 D. 35×3 D. $(2 \times 10) \times 4$ 11)Which expression is not equal to $(7 \times 10) \times 8$ 12)A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | 9) | | 10) | | |
| B. $(5 \times 7) \times 3$ B. 2×40 C. 5×21 C. 20×4 D. 35×3 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ 12) A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | · · · · | | | |
| C. 5×21 C. 20×4 D. 35×3 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ 12) Which expression is not equal to $9 \times (10 \times 5)$ A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | | | | |
| D. 35×3 D. $(2 \times 10) \times 4$ 11) Which expression is not equal to $(7 \times 10) \times 8$ 12) Which expression is not equal to $9 \times (10 \times 5)$ A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | | | | |
| 11) Which expression is not equal to $(7 \times 10) \times 8$ 12) Which expression is not equal to $9 \times (10 \times 5)$ A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | | | | |
| $(7 \times 10) \times 8$ $9 \times (10 \times 5)$ A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | D. 35×3 | | D. $(2 \times 10) \times 4$ | |
| A. 70×8 A. 9×60 B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | 11) | | 12) | | |
| B. $7 \times (10 \times 8)$ B. 9×50 C. 7×80 C. $(9 \times 10) \times 5$ | | | | | |
| C. 7×80 C. $(9 \times 10) \times 5$ | | | | | |
| | | | | | |
| $D. 60 \times 8 		 D. 90 \times 5$ | | | | | |
| 11 | | D. 60×8 | | D. 90×5 | |

| | Finding Asso | ociative Pr | coperty Name: Ans | wer Key |
|------|---|-------------|--|---|
| Dete | ermine which choice is not an equivale | nt equation | • | Answers |
| 1) | Which expression is not equal to $(5 \times 7) \times 2$ A. 5×14 B. $5 \times (7 \times 2)$ C. 5×21 D. 35×2 | 2) | Which expression is not equal to $4 \times (10 \times 2)$ A. 4×20 B. $(4 \times 10) \times 2$ C. $(4 + 10) \times 2$ D. 40×2 | 1. <u>C</u> 2. <u>C</u> 3. <u>A</u> |
| 3) | Which expression is not equal to $5 \times (8 \times 6)$ A. $(5+8) \times 6$ B. 5×48 C. 40×6 D. $(5 \times 8) \times 6$ | 4) | Which expression is not equal to $4 \times (5 \times 9)$ A. 15×9 B. $(4 \times 5) \times 9$ C. 4×45 D. 20×9 | 4. <u>A</u> 5. <u>D</u> 6. <u>C</u> |
| 5) | Which expression is not equal to $(8 \times 5) \times 2$ A. 40 × 2 B. 8 × (5 × 2) C. 8 × 10 D. 35 × 2 | 6) | Which expression is not equal to $10 \times (3 \times 9)$ A. 30×9 B. 10×27 C. $(10 + 3) \times 9$ D. $(10 \times 3) \times 9$ | 7. <u>A</u> 8. <u>D</u> 9. <u>A</u> 10. <u>A</u> |
| 7) | Which expression is not equal to $(5 \times 7) \times 2$ A. 42×2 B. $5 \times (7 \times 2)$ C. 5×14 D. 35×2 | 8) | Which expression is not equal to $2 \times (8 \times 4)$ A. $(2 \times 8) \times 4$ B. 16×4 C. 2×32 D. 2×40 | 11. D 12. A |
| 9) | Which expression is not equal to $5 \times (7 \times 3)$ A. 28 × 3 B. $(5 \times 7) \times 3$ C. 5×21 D. 35×3 | 10) | Which expression is not equal to $2 \times (10 \times 4)$ A. 2×30 B. 2×40 C. 20×4 D. $(2 \times 10) \times 4$ | |
| 11) | Which expression is not equal to (7×10) $\times 8$ A. 70×8 B. $7 \times (10 \times 8)$ C. 7×80 D. 60×8 | 12) | Which expression is not equal to $9 \times (10 \times 5)$ A. 9×60 B. 9×50 C. $(9 \times 10) \times 5$ D. 90×5 | |

| | Finding Asso | ociative Pr | operty Name: | |
|------|--|-------------|--|-------------|
| Dete | ermine which choice is not an equivaler | | | Answers |
| 1) | Which expression is not equal to $(8 \times 6) \times 4$ A. 8×18 B. 48×4 C. $8 \times (6 \times 4)$ D. 8×24 | 2) | Which expression is not equal to $7 \times (3 \times 4)$ A. $(7 \times 3) \times 4$ B. $(7 + 3) \times 4$ C. 7×12 D. 21×4 | 1. 2. |
| 3) | D. 8×24 Which expression is not equal to | 4) | D. 21×4 Which expression is not equal to | 3 |
| 0) | $7 \times (9 \times 2)$ A. 72×2 B. 63×2 C. 7×18 | -, | $6 \times (9 \times 5)$ A. 54 × 5 B. (6 × 9) × 5 C. 63 × 5 | 4 5 |
| | D. $(7 \times 9) \times 2$ | | D. 6×45 | 6 |
| 5) | Which expression is not equal to $3 \times (4 \times 5)$ A. $(3 \times 4) \times 5$ | 6) | Which expression is not equal to $10 \times (7 \times 2)$ A. 10×14 | 7. 8. |
| | B. 12×5 C. $(3+4) \times 5$ | | B. (10×7)×2 C. 77×2 | 9 |
| 7) | D. 3×20 Which expression is not equal to | 8) | D. 70×2 Which expression is not equal to | 10 |
| | $10 \times (9 \times 6)$ A. $(10 + 9) \times 6$ B. $(10 \times 9) \times 6$ | | $(8 \times 9) \times 2$ A. 63 × 2 B. 72 × 2 | 11 |
| | C. 10×54 D. 90×6 | | C. $8 \times (9 \times 2)$ D. 8×18 | |
| 9) | Which expression is not equal to $(9 \times 2) \times 8$ A. $9 \times (2 \times 8)$ B. 18×8 C. 9×16 D. $9 + (2 \times 8)$ | 10) | Which expression is not equal to $2 \times (10 \times 8)$ A. $(2 \times 10) \times 8$ B. 2×70 C. 20×8 D. 2×80 | |
| 11) | Which expression is not equal to $(2 \times 6) \times 5$ A. 2×30 B. 2×36 C. 12×5 | 12) | Which expression is not equal to $3 \times (10 \times 7)$ A. $(3 + 10) \times 7$ B. 30×7 C. 3×70 | |
| | D. $2 \times (6 \times 5)$ | | D. $(3 \times 10) \times 7$ | |

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| | Finding As | sociative Pr | operty Name: | Answer Key |
|------|--|--------------|---|---|
| Dete | ermine which choice is not an equival | | 1 2 | Answers |
| 1) | Which expression is not equal to (8×6) $\times 4$ A. 8×18 B. 48×4 C. $8 \times (6 \times 4)$ D. 8×24 | 2) | Which expression is not equal to $7 \times (3 \times 4)$ A. $(7 \times 3) \times 4$ B. $(7 + 3) \times 4$ C. 7×12 D. 21×4 | 1. <u>A</u> 2. <u>B</u> 3. <u>A</u> |
| 3) | Which expression is not equal to $7 \times (9 \times 2)$ A. 72×2 B. 63×2 C. 7×18 D. $(7 \times 9) \times 2$ | 4) | Which expression is not equal to $6 \times (9 \times 5)$ A. 54×5 B. $(6 \times 9) \times 5$ C. 63×5 D. 6×45 | 4. <u>C</u> 5. <u>C</u> 6. <u>C</u> 7. A |
| 5) | Which expression is not equal to $3 \times (4 \times 5)$ A. $(3 \times 4) \times 5$ B. 12×5 C. $(3 + 4) \times 5$ D. 3×20 | 6) | Which expression is not equal to $10 \times (7 \times 2)$ A. 10×14 B. $(10 \times 7) \times 2$ C. 77×2 D. 70×2 | 7. |
| 7) | Which expression is not equal to $10 \times (9 \times 6)$ A. $(10 + 9) \times 6$ B. $(10 \times 9) \times 6$ C. 10×54 D. 90×6 | 8) | Which expression is not equal to $(8 \times 9) \times 2$ A. 63×2 B. 72×2 C. $8 \times (9 \times 2)$ D. 8×18 | 11. <u>B</u> 12. <u>A</u> |
| 9) | Which expression is not equal to $(9 \times 2) \times 8$ A. $9 \times (2 \times 8)$ B. 18×8 C. 9×16 D. $9 + (2 \times 8)$ | 10) | Which expression is not equal to $2 \times (10 \times 8)$ A. $(2 \times 10) \times 8$ B. 2×70 C. 20×8 D. 2×80 | |
| 11) | Which expression is not equal to $(2 \times 6) \times 5$ A. 2 × 30 B. 2 × 36 C. 12 × 5 D. 2 × (6 × 5) Math | 12) | Which expression is not equal to $3 \times (10 \times 7)$ A. $(3 + 10) \times 7$ B. 30×7 C. 3×70 D. $(3 \times 10) \times 7$ A $1-10$ 92 83 7 | 75 67 58 50 42 33 25 17 |

| Finding Associative Property Name: | | | | | | |
|------------------------------------|---|-------------|---|---------|--|--|
| Dete | ermine which choice is not an equivalen | nt equation | | Answers | | |
| 1) | Which expression is not equal to | 2) | Which expression is not equal to | | | |
| | $(8 \times 4) \times 3$ | | $(9 \times 6) \times 8$ | 1 | | |
| | A. $8 + (4 \times 3)$ | | A. $9 \times (6 \times 8)$ | | | |
| | B. 32×3 | | B. 54 × 8 | 2 | | |
| | C. 8 × 12 | | C. 9 × 48 | | | |
| | D. $8 \times (4 \times 3)$ | | D. 9 × 54 | 3 | | |
| 3) | Which expression is not equal to $7 \times (8 \times 10)$ | 4) | Which expression is not equal to $(7 \times 4) \times 9$ | 4 | | |
| | A. $(7 \times 8) \times 10$ | | A. $7 \times (4 \times 9)$ | 5. | | |
| | $\mathbf{B.}\ 48\times10$ | | B. $7 + (4 \times 9)$ | | | |
| | C. 56×10 | | C. 7 × 36 | 6. | | |
| | D. 7 × 80 | | D. 28 × 9 | 0. | | |
| 5) | Which expression is not equal to $3 \times (4 \times 5)$ | 6) | Which expression is not equal to $(10 \times 6) \times 8$ | 7 | | |
| | A. $(3 \times 4) \times 5$ | | A. $10 + (6 \times 8)$ | 8 | | |
| | B. 3 × 20 | | B. $10 \times (6 \times 8)$ | | | |
| | C. 3 × 16 | | C. 60×8 | 9 | | |
| | D. 12 × 5 | | D. 10 × 48 | 10. | | |
| 7) | Which expression is not equal to $(8 \times 5) \times 10$ | 8) | Which expression is not equal to $(2 \times 5) \times 8$ | 11. | | |
| | A. $8 \times (5 \times 10)$ | | A. $2 + (5 \times 8)$ | | | |
| | B. $8 + (5 \times 10)$ | | B. 10 × 8 | 12 | | |
| | C. 8 × 50 | | C. 2×40 | | | |
| | D. 40 × 10 | | D. $2 \times (5 \times 8)$ | | | |
| 9) | Which expression is not equal to $10 \times (7 \times 9)$ | 10) | Which expression is not equal to $3 \times (10 \times 6)$ | | | |
| | A. 63×9 | | A. $(3 \times 10) \times 6$ | | | |
| | B. $(10 \times 7) \times 9$ | | $B.3 \times 60$ | | | |
| | $\mathbf{C.} \ 70 \times 9$ | | $C.3 \times 70$ | | | |
| | D. 10 × 63 | | D. 30×6 | | | |
| 11) | Which expression is not equal to $5 \times (9 \times 10)$ | 12) | Which expression is not equal to $(4 \times 3) \times 2$ | | | |
| | A. 5×90 | | A. 4 × 3 | | | |
| | B. $(5 \times 9) \times 10$ | | B. 4×6 | | | |
| | C. (5+9)×10 | | C. 12 × 2 | | | |
| | D. 45 × 10 | | D. $4 \times (3 \times 2)$ | | | |

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| | Finding | Associative Pr | operty Name: | Answer Key |
|------|--|------------------|---|--|
| Dete | ermine which choice is not an equi | ivalent equation | • | Answers |
| 1) | Which expression is not equal to $(8 \times 4) \times 3$ A. 8 + (4 × 3) B. 32 × 3 C. 8 × 12 D. 8 × (4 × 3) | 2) | Which expression is not equal to $(9 \times 6) \times 8$ A. $9 \times (6 \times 8)$ B. 54×8 C. 9×48 D. 9×54 | 1. <u>A</u> 2. <u>D</u> 3. <u>B</u> |
| 3) | Which expression is not equal to $7 \times (8 \times 10)$ A. $(7 \times 8) \times 10$ B. 48×10 C. 56×10 D. 7×80 | 4) | Which expression is not equal to $(7 \times 4) \times 9$ A. $7 \times (4 \times 9)$ B. $7 + (4 \times 9)$ C. 7×36 D. 28×9 | 4. <u>B</u> 5. <u>C</u> 6. <u>A</u> 7. <u>B</u> |
| 5) | Which expression is not equal to $3 \times (4 \times 5)$ A. $(3 \times 4) \times 5$ B. 3×20 C. 3×16 D. 12×5 | 6) | Which expression is not equal to (10×6) $\times 8$ A. $10 + (6 \times 8)$ B. $10 \times (6 \times 8)$ C. 60×8 D. 10×48 | 7 8A 9A 10C |
| 7) | Which expression is not equal to (8×5)×10 A. 8×(5×10) B. 8+(5×10) C. 8×50 D. 40×10 | 8) | Which expression is not equal to $(2 \times 5) \times 8$ A. 2 + (5 × 8) B. 10 × 8 C. 2 × 40 D. 2 × (5 × 8) | 11. <u>C</u> 12. <u>A</u> |
| 9) | Which expression is not equal to $10 \times (7 \times 9)$ A. 63×9 B. $(10 \times 7) \times 9$ C. 70×9 D. 10×63 | 10) | Which expression is not equal to $3 \times (10 \times 6)$ A. $(3 \times 10) \times 6$ B. 3×60 C. 3×70 D. 30×6 | |
| 11) | Which expression is not equal to $5 \times (9 \times 10)$ A. 5×90 B. $(5 \times 9) \times 10$ C. $(5 + 9) \times 10$ D. 45×10 Math | 12) | Which expression is not equal to $(4 \times 3) \times 2$ A. 4×3 B. 4×6 C. 12×2 D. $4 \times (3 \times 2)$ 5 $1-10$ 92 83 $7511-12$ 8 0 | 5 67 58 50 42 33 25 17 |

| Dete | ermine which choice is not an equivalen | t equation | | Answers |
|------|---|------------|----------------------------------|---------|
| 1) | Which expression is not equal to | 2) | Which expression is not equal to | |
| | $5 \times (9 \times 3)$ | | $(7 \times 9) \times 4$ | 1 |
| | A. 36 × 3 | | A. 7 × 36 | |
| | B. $(5 \times 9) \times 3$ | | B. 7 + (9 × 4) | 2. |
| | C. 5 × 27 | | C. 63 × 4 | |
| | D. 45 × 3 | | D. $7 \times (9 \times 4)$ | 3 |
| 3) | Which expression is not equal to | 4) | Which expression is not equal to | 4 |
| | $(9 \times 7) \times 8$ | | $(4 \times 10) \times 6$ | |
| | A. 63 × 8 | | A. $4 \times (10 \times 6)$ | 5. |
| | B. $9 \times (7 \times 8)$ | | B. 40×6 | |
| | C. 9 × 49 | | C. 4×60 | 6. |
| | D. 9 × 56 | | D. 50×6 | |
| 5) | Which expression is not equal to | 6) | Which expression is not equal to | 7 |
| 5) | $9 \times (2 \times 7)$ | 0) | $6 \times (5 \times 4)$ | |
| | A. $(9 \times 2) \times 7$ | | A. $(6 \times 5) \times 4$ | 8. |
| | B. 18×7 | | $B. 6 \times 20$ | |
| | $C. 9 \times 14$ | | $C. 30 \times 4$ | 9. |
| | $D. 9 \times 16$ | | $D. 6 \times 15$ | |
| | | | D. 0 × 15 | 10 |
| 7) | Which expression is not equal to | 8) | Which expression is not equal to | |
| | (9×10)×8 | | $9 \times (4 \times 3)$ | 11 |
| | A. $9 \times (10 \times 8)$ | | A. 36 × 3 | |
| | $\mathbf{B.}\ 90\times 8$ | | B. 40×3 | 12 |
| | C. 100×8 | | C. 9 × 12 | |
| | $D. 9 \times 80$ | | D. $(9 \times 4) \times 3$ | |
| 9) | Which expression is not equal to | 10) | Which expression is not equal to | |
| | $(3 \times 9) \times 4$ | | $(2 \times 9) \times 3$ | |
| | A. $3 \times (9 \times 4)$ | | A. 2×27 | |
| | B. 3 × 36 | | B. $2 \times (9 \times 3)$ | |
| | C. 36×4 | | C. 18×3 | |
| | D. 27 × 4 | | D. 2 × 18 | |
| 1) | Which expression is not equal to | 12) | Which expression is not equal to | |
| | $(10 \times 7) \times 9$ | | $(9 \times 8) \times 2$ | |
| | A. $10 \times (7 \times 9)$ | | A. 9 × 16 | |
| | B. 10×70 | | B. 80×2 | |
| | C. 70×9 | | C. 72×2 | |
| | D. 10 × 63 | | D. $9 \times (8 \times 2)$ | |

| | Finding Asso | | 1 V | swer Key |
|---|----------------------------|-------------|---|---|
| etermine which o | choice is not an equivaler | nt equation | • | Answers |
| 1) Which express $5 \times (9 \times 3)$ | sion is not equal to | 2) | Which expression is not equal to $(7 \times 9) \times 4$ | 1. A |
| A. 36×3 | | | A. 7 × 36 | |
| B. $(5 \times 9) \times$ | 3 | | B. $7 + (9 \times 4)$ | 2. B |
| C. 5 × 27 | | | C. 63 × 4 | |
| D. 45 × 3 | | | D. $7 \times (9 \times 4)$ | 3. <u>C</u> |
| 3) Which expres $(9 \times 7) \times 8$ | sion is not equal to | 4) | Which expression is not equal to $(4 \times 10) \times 6$ | 4. D |
| A. 63 × 8 | | | A. $4 \times (10 \times 6)$ | 5. D |
| B. $9 \times (7 \times 8)$ |) | | B. 40×6 | |
| C. 9 × 49 | | | C. 4×60 | 6. D |
| D. 9 × 56 | | | D. 50 × 6 | 0. |
| 5) Which expres | sion is not equal to | 6) | Which expression is not equal to | 7. <u>C</u> |
| $9 \times (2 \times 7)$ | sion is not equal to | 0) | $6 \times (5 \times 4)$ | |
| A. $(9 \times 2) \times$ | 7 | | A. $(6 \times 5) \times 4$ | 8. B |
| $\mathbf{B}.\ 18\times7$ | , | | $B. 6 \times 20$ | ~ |
| $C. 9 \times 14$ | | | $C. 30 \times 4$ | 9. <u>C</u> |
| D. 9×16 | | | D. 6×15 | |
| 7) Which expres | sion is not equal to | 8) | Which expression is not equal to | 10. D |
| $(9 \times 10) \times 8$ | sion is not equal to | 0) | $9 \times (4 \times 3)$ | 11. B |
| A. $9 \times (10 \times$ | 8) | | A. 36×3 | |
| B. 90×8 | -) | | B. 40×3 | 12. B |
| C. 100×8 | | | $C.9 \times 12$ | |
| D. 9×80 | | | D. $(9 \times 4) \times 3$ | |
| 9) Which expres $(3 \times 9) \times 4$ | sion is not equal to | 10) | Which expression is not equal to $(2 \times 9) \times 3$ | |
| A. $3 \times (9 \times 4)$ |) | | A. 2 × 27 | |
| B . 3 × 36 | | | B. $2 \times (9 \times 3)$ | |
| C. 36 × 4 | | | C. 18 × 3 | |
| D. 27 × 4 | | | D. 2 × 18 | |
| 1) Which express $(10 \times 7) \times 9$ | sion is not equal to | 12) | Which expression is not equal to $(9 \times 8) \times 2$ | |
| A. 10 × (7 × | 9) | | A. 9 × 16 | |
| B. 10×70 | | | B. 80×2 | |
| C. 70 × 9 | | | C. 72×2 | |
| D. 10 × 63 | | | D. $9 \times (8 \times 2)$ | |
| Math | | | 6 1-10 92 83 75 67 11-12 8 0 | 58 50 42 33 25 17 |

| etermine which choice is not an equivalent equation. | | | | |
|--|----------------------------------|-----|--|----|
| 1) | Which expression is not equal to | 2) | Which expression is not equal to | |
| | $5 \times (8 \times 7)$ | | $4 \times (5 \times 6)$ | 1 |
| | A. 40×7 | | A. $(4 \times 5) \times 6$ | |
| | B. 5 × 48 | | B. 20×6 | 2. |
| | C. 5 × 56 | | C. 25×6 | |
| | D. (5×8) $\times 7$ | | D. 4×30 | 3 |
| 3) | Which expression is not equal to | 4) | Which expression is not equal to | 4 |
| | (6 × 10) × 5 | | $(7 \times 5) \times 6$ | |
| | A. 60×5 | | A. 7 × 35 | 5. |
| | B. 6×60 | | B. 35×6 | |
| | C. 6×50 | | C. $7 \times (5 \times 6)$ | 6. |
| | D. $6 \times (10 \times 5)$ | | D. 7 × 30 | |
| | | | | 7. |
| 5) | Which expression is not equal to | 6) | Which expression is not equal to | |
| | $(5 \times 9) \times 3$ | | 8 	imes (4 	imes 7) | 8. |
| | A. $5 \times (9 \times 3)$ | | A. 32×7 | 0. |
| | B. $5 + (9 \times 3)$ | | B. 36×7 | 0 |
| | C. 5 × 27 | | C. $(8 \times 4) \times 7$ | 9 |
| | D. 45 × 3 | | D. 8 × 28 | 10 |
| ') | Which expression is not equal to | 8) | Which expression is not equal to | |
| | $3 \times (2 \times 4)$ | | $8 \times (5 \times 4)$ | 11 |
| | A. 3×8 | | A. 8 × 15 | |
| | B. 6×4 | | B. 40×4 | 12 |
| | C. $(3 \times 2) \times 4$ | | C. $(8 \times 5) \times 4$ | |
| | D. 3×6 | | D. 8×20 | |
|)) | Which expression is not equal to | 10) | Which expression is not equal to | |
| | $(10 \times 7) \times 4$ | | $5 \times (10 \times 4)$ | |
| | A. $10 \times (7 \times 4)$ | | A. 5×40 | |
| | B. 10×28 | | B. 5×30 | |
| | C. 70×4 | | C. 50×4 | |
| | D. $10 + (7 \times 4)$ | | D. $(5 \times 10) \times 4$ | |
|) | 1 1 | 12) | Which expression is not equal to $(2 - 5) = 6$ | |
| | $9 \times (5 \times 6)$ | | $(8 \times 5) \times 6$ | |
| | A. 9×35 | | A. 8×30 | |
| | B. $(9 \times 5) \times 6$ | | B. $8 \times (5 \times 6)$ | |
| | $C. 9 \times 30$ | | C. $8 + (5 \times 6)$ | |
| | D. 45×6 | | D. 40×6 | |

|)ete | Finding Asso rmine which choice is not an equivaler | | | wer Key Answers |
|------------|---|-----|---|--------------------|
| | Which expression is not equal to | | Which expression is not equal to | |
| 1) | $5 \times (8 \times 7)$ | 2) | $4 \times (5 \times 6)$ | 1. B |
| | A. 40×7 | | A. $(4 \times 5) \times 6$ | |
| | B. 5×48 | | $B. 20 \times 6$ | 2. C |
| | $C.5 \times 56$ | | $C. 25 \times 6$ | |
| | D. $(5 \times 8) \times 7$ | | D. 4×30 | 3. B |
| 3) | Which expression is not equal to | 4) | Which expression is not equal to | 4. A |
| | $(6 \times 10) \times 5$ | | $(7 \times 5) \times 6$ | |
| | A. 60×5 | | A. 7 × 35 | 5. B |
| | B. 6×60 | | B. 35×6 | |
| | C. 6×50 | | C. $7 \times (5 \times 6)$ | 6. B |
| | D. $6 \times (10 \times 5)$ | | D. 7×30 | |
| 5) | **** | 0 | TTT1 1 1 1 1 | 7. D |
| 5) | Which expression is not equal to $(5 \times 9) \times 3$ | 0) | Which expression is not equal to $8 \times (4 \times 7)$ | |
| | $(3 \times 9) \times 3$ A. 5 × (9 × 3) | | $A. 32 \times 7$ | 8. A |
| | B. $5 + (9 \times 3)$ | | $\mathbf{B}.\ 36\times7$ | |
| | C. 5×27 | | C. $(8 \times 4) \times 7$ | 9. D |
| | D. 45×3 | | D. 8×28 | |
| | $D.43 \times 3$ | | $D. \delta \times 2\delta$ | 10. B |
| 7) | Which expression is not equal to | 8) | Which expression is not equal to | |
| | 3 × (2 × 4) | | $8 \times (5 \times 4)$ | 11. A |
| | A. 3×8 | | A. 8 × 15 | C |
| | B. 6×4 | | B. 40×4 | 12. C |
| | C. $(3 \times 2) \times 4$ | | C. $(8 \times 5) \times 4$ | |
| | D. 3×6 | | D. 8×20 | |
| 9) | Which expression is not equal to $(10 \times 7) \times 4$ | 10) | Which expression is not equal to $5 \times (10 \times 4)$ | |
| | A. 10 × (7 × 4) | | A. 5×40 | |
| | B. 10 × 28 | | B. 5×30 | |
| | C. 70 × 4 | | C. 50×4 | |
| | D. 10 + (7 × 4) | | D. (5×10) $\times 4$ | |
| 1) | Which expression is not equal to $9 \times (5 \times 6)$ | 12) | Which expression is not equal to $(8 \times 5) \times 6$ | |
| | A. 9 × 35 | | A. 8 × 30 | |
| | B. $(9 \times 5) \times 6$ | | B. $8 \times (5 \times 6)$ | |
| | C. 9 × 30 | | C. $8 + (5 \times 6)$ | |
| | D. 45 × 6 | | D. 40 × 6 | |
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| Determine which choice is not an equivalent equation. | | | | | |
|---|--|-----|---|----|--|
| 1) | Which expression is not equal to | 2) | Which expression is not equal to | | |
| | $(3 \times 6) \times 9$ | | $6 \times (10 \times 3)$ | 1. | |
| | A. $3 \times (6 \times 9)$ | | A. 6×20 | | |
| | B. 12 × 9 | | B. (6×10) $\times 3$ | 2. | |
| | C. 18 × 9 | | C. 60 × 3 | | |
| | D. 3 × 54 | | D. 6 × 30 | 3 | |
| 3) | Which expression is not equal to | 4) | Which expression is not equal to | 4 | |
| | $5 \times (2 \times 3)$ | | $6 \times (9 \times 2)$ | | |
| | A. 5×6 | | A. $(6 \times 9) \times 2$ | 5 | |
| | B. 5×8 | | B. $(6+9) \times 2$ | | |
| | C. $(5 \times 2) \times 3$ | | C. 54×2 | 6. | |
| | D. 10×3 | | D. 6 × 18 | | |
| | | | | 7. | |
| 5) | Which expression is not equal to | 6) | Which expression is not equal to | | |
| | $(8 \times 7) \times 10$ | | $(5 \times 10) \times 4$ | 8. | |
| | A. $8 \times (7 \times 10)$ | | A. 50×4 | | |
| | B. 56×10 | | B. $5 + (10 \times 4)$ | 9. | |
| | C. 8 × 70 | | $C.5 \times 40$ | | |
| | D. 8 × 77 | | D. $5 \times (10 \times 4)$ | 10 | |
| 7) | Which expression is not equal to | 8) | Which expression is not equal to | | |
| | $2 \times (3 \times 6)$ | | $9 \times (2 \times 10)$ | 11 | |
| | A. 2×18 | | A. 18×10 | | |
| | B. 6×6 | | B. 9 × 18 | 12 | |
| | C. $(2+3) \times 6$ | | C. 9×20 | | |
| | D. $(2 \times 3) \times 6$ | | D. $(9 \times 2) \times 10$ | | |
| 9) | Which expression is not equal to | 10) | Which expression is not equal to | | |
| | $(5 \times 3) \times 7$ | | $(3 \times 10) \times 6$ | | |
| | A. 5×21 | | A. $3 \times (10 \times 6)$ | | |
| | $B. 5 \times (3 \times 7)$ | | B. 20×6 | | |
| | C. 15×7 | | C. 3 × 60 | | |
| | D. $5 + (3 \times 7)$ | | D. 30×6 | | |
| 1) | Which expression is not equal to $(7, 2)$ | 12) | Which expression is not equal to $10 - (5 - 6)$ | | |
| | $10 \times (7 \times 3)$ | | $10 \times (5 \times 6)$ | | |
| | A. $(10 \times 7) \times 3$ P. 10×21 | | A. 10×30 | | |
| | B. 10×21 | | B. $(10 \times 5) \times 6$ | | |
| | C. 70×3 | | C. 50×6 | | |
| | D. 63×3 | | D. $(10+5) \times 6$ | | |

| | Finding As | ssociative Pr | operty Name: Ar | nswer Key |
|------|--|---------------|--|------------------------------|
| Dete | ermine which choice is not an equiva | | | Answers |
| 1) | Which expression is not equal to (3×6) $\times 9$ A. $3 \times (6 \times 9)$ B. 12×9 | 2) | Which expression is not equal to $6 \times (10 \times 3)$ A. 6×20 B. $(6 \times 10) \times 3$ | 1. B 2. A |
| | C. 18 × 9 D. 3 × 54 | | C. 60 × 3 D. 6 × 30 | 3. B |
| 3) | Which expression is not equal to $5 \times (2 \times 3)$ A. 5×6 | 4) | Which expression is not equal to $6 \times (9 \times 2)$ A. $(6 \times 9) \times 2$ | 4. B 5. D |
| | B. 5 × 8 C. (5 × 2) × 3 D. 10 × 3 | | B. (6 + 9) × 2 C. 54 × 2 D. 6 × 18 | 6. B |
| 5) | Which expression is not equal to (8×7) × 10 A. $8 \times (7 \times 10)$ | 6) | Which expression is not equal to (5×10) $\times 4$ A. 50×4 | 7. <u>C</u> 8. <u>B</u> |
| | B. 56 × 10 C. 8 × 70 D. 8 × 77 | | B. $5 + (10 \times 4)$ C. 5×40 D. $5 \times (10 \times 4)$ | 9. D 10. B |
| 7) | Which expression is not equal to $2 \times (3 \times 6)$ A. 2×18 B. 6×6 C. $(2+3) \times 6$ D. $(2 \times 3) \times 6$ | 8) | Which expression is not equal to $9 \times (2 \times 10)$ A. 18×10 B. 9×18 C. 9×20 D. $(9 \times 2) \times 10$ | 11. D 12. D |
| 9) | Which expression is not equal to $(5 \times 3) \times 7$ A. 5×21 B. $5 \times (3 \times 7)$ C. 15×7 D. $5 + (3 \times 7)$ | 10) | Which expression is not equal to $(3 \times 10) \times 6$ A. $3 \times (10 \times 6)$ B. 20×6 C. 3×60 D. 30×6 | |
| 11) | Which expression is not equal to $10 \times (7 \times 3)$ A. $(10 \times 7) \times 3$ B. 10×21 C. 70×3 D. 63×3 | 12) | Which expression is not equal to $10 \times (5 \times 6)$ A. 10×30 B. $(10 \times 5) \times 6$ C. 50×6 D. $(10 + 5) \times 6$ | |
| | Math www.CommonCoreS | sheets.com | 8 1-10 92 83 75 67 11-12 8 0 | 7 58 50 42 33 25 17 |

| | Finding Asso | ciative Pr | operty Name: | |
|------|--|-------------|---|-------------------|
| Dete | rmine which choice is not an equivaler | nt equation | • | Answers |
| 1) | Which expression is not equal to | 2) | Which expression is not equal to | |
| | $(6 \times 10) \times 4$ | | $8 \times (3 \times 5)$ | 1 |
| | A. 6×40 | | A. $(8 \times 3) \times 5$ | |
| | B. $6 \times (10 \times 4)$ | | B. 24×5 | 2 |
| | C. $6 + (10 \times 4)$ | | C. 8 × 15 | |
| | D. 60×4 | | D. $(8+3) \times 5$ | 3. |
| 3) | Which expression is not equal to | 4) | Which expression is not equal to | 4 |
| | $2 \times (9 \times 5)$ | | $(6 \times 7) \times 8$ | |
| | A. 18×5 | | A. 42×8 | 5 |
| | B. 27 × 5 | | B. $6 + (7 \times 8)$ | |
| | C. $(2 \times 9) \times 5$ | | C. $6 \times (7 \times 8)$ | 6 |
| | $D. 2 \times 45$ | | D. 6 × 56 | |
| 5) | Which expression is not equal to | 6) | Which expression is not equal to | 7 |
| C) | $2 \times (3 \times 9)$ | 0) | $(6 \times 8) \times 4$ | |
| | $A. 2 \times 30$ | | A. $6 \times (8 \times 4)$ | 8 |
| | B. $(2 \times 3) \times 9$ | | $B. 48 \times 4$ | |
| | $C. 2 \times 27$ | | C. 56×4 | 9 |
| | $D. 6 \times 9$ | | $D.6 \times 32$ | |
| | | | | 10 |
| 7) | Which expression is not equal to | 8) | Which expression is not equal to | |
| | $(2 \times 3) \times 8$ | | $(4 \times 6) \times 3$ | 11 |
| | A. 6 × 8 | | A. 4 × 18 | |
| | B. $2 \times (3 \times 8)$ | | B. 24 × 3 | 12 |
| | C. $2 + (3 \times 8)$ | | C. 4 × 24 | |
| | D. 2 × 24 | | D. $4 \times (6 \times 3)$ | |
| 9) | Which expression is not equal to | 10) | Which expression is not equal to | |
| | $(3 \times 6) \times 4$ | | $3 \times (2 \times 9)$ | |
| | A. 3 × 24 | | A. 6 × 9 | |
| | B. 24×4 | | B. 3 × 18 | |
| | C. 3 × (6 × 4) | | C. $(3 \times 2) \times 9$ | |
| | D. 18 × 4 | | D. (3+2) × 9 | |
| 11) | Which expression is not equal to | 12) | Which expression is not equal to | |
| - | $(7 \times 8) \times 6$ | - | $10 \times (6 \times 5)$ | |
| | A. 7×48 | | A. $(10+6) \times 5$ | |
| | B. 7 × 40 | | B. $(10 \times 6) \times 5$ | |
| | C. 56 × 6 | | C. 60 × 5 | |
| | D. $7 \times (8 \times 6)$ | | D. 10 × 30 | |
| | | | O 1-10 92 83 75 67 | 58 50 42 33 25 17 |
| | Math www.CommonCoreShe | ets.com | 9 $\frac{1-10}{11-12} \frac{92}{8} \frac{83}{75} \frac{75}{67}$ | 58 50 42 55 25 |

| | Finding A | Associative Pr | operty Name: A | Answer Key |
|------|---|----------------|--|---|
| Dete | ermine which choice is not an equiv | | 1 / | Answers |
| 1) | Which expression is not equal to $(6 \times 10) \times 4$ A. 6×40 B. $6 \times (10 \times 4)$ C. $6 + (10 \times 4)$ D. 60×4 | 2) | Which expression is not equal to $8 \times (3 \times 5)$ A. $(8 \times 3) \times 5$ B. 24×5 C. 8×15 D. $(8+3) \times 5$ | 1. <u>C</u> 2. <u>D</u> 3. <u>B</u> |
| 3) | Which expression is not equal to $2 \times (9 \times 5)$ A. 18×5 B. 27×5 C. $(2 \times 9) \times 5$ D. 2×45 | 4) | Which expression is not equal to $(6 \times 7) \times 8$ A. 42 × 8 B. 6 + (7 × 8) C. 6 × (7 × 8) D. 6 × 56 | 4. <u>B</u> 5. <u>A</u> 6. <u>C</u> 7. <u>C</u> |
| 5) | Which expression is not equal to $2 \times (3 \times 9)$ A. 2×30 B. $(2 \times 3) \times 9$ C. 2×27 D. 6×9 | 6) | Which expression is not equal to (6×8) × 4 A. $6 \times (8 \times 4)$ B. 48×4 C. 56×4 D. 6×32 | 7. <u>C</u> 8. <u>C</u> 9. <u>B</u> 10. <u>D</u> |
| 7) | Which expression is not equal to $(2 \times 3) \times 8$ A. 6×8 B. $2 \times (3 \times 8)$ C. $2 + (3 \times 8)$ D. 2×24 | 8) | Which expression is not equal to $(4 \times 6) \times 3$ A. 4×18 B. 24×3 C. 4×24 D. $4 \times (6 \times 3)$ | 11. <u>B</u> 12. <u>A</u> |
| 9) | Which expression is not equal to $(3 \times 6) \times 4$ A. 3×24 B. 24×4 C. $3 \times (6 \times 4)$ D. 18×4 | 10) | Which expression is not equal to $3 \times (2 \times 9)$ A. 6×9 B. 3×18 C. $(3 \times 2) \times 9$ D. $(3 + 2) \times 9$ | |
| 11) | Which expression is not equal to $(7 \times 8) \times 6$ A. 7×48 B. 7×40 C. 56×6 D. $7 \times (8 \times 6)$ Math | 12) | Which expression is not equal to $10 \times (6 \times 5)$ A. $(10 + 6) \times 5$ B. $(10 \times 6) \times 5$ C. 60×5 D. 10×30 11-10 92 83 75 11-12 8 0 | 67 58 50 42 33 25 17 |

| | Finding Asso | ciative Pr | operty Name: | |
|------------|---|------------|---|-----|
| Dete | Answers | | | |
| 1) | Which expression is not equal to $4 \times (2 \times 10)$ A. 10×10 | 2) | Which expression is not equal to (2×3)×4 A. 2×(3×4) | 1 |
| | B. $(4 \times 2) \times 10$ C. 8×10 | | B. 6×4 C. 2×9 | 2 |
| | D. 4 × 20 | | D. 2 × 12 | 3 |
| 3) | Which expression is not equal to $8 \times (9 \times 7)$ | 4) | Which expression is not equal to $9 \times (7 \times 3)$ | 4 |
| | A. $(8 \times 9) \times 7$ | | A. $(9 \times 7) \times 3$ | 5 |
| | B. 72×7 | | B. 63×3 | |
| | C. $(8+9) \times 7$ | | C. $(9+7) \times 3$ | 6 |
| | D. 8×63 | | D. 9 × 21 | |
| 5) | Which expression is not equal to $4 \times (6 \times 2)$ | 6) | Which expression is not equal to $3 \times (9 \times 6)$ | 7 |
| | A. 4 × 18 | | A. 27 × 6 | 8 |
| | B. $(4 \times 6) \times 2$ | | B. 3 × 54 | |
| | C. 4 × 12 | | C. $(3 \times 9) \times 6$ | 9 |
| | D. 24 × 2 | | D. (3+9)×6 | 10. |
| 7) | Which expression is not equal to $(5 \times 8) \times 6$ | 8) | Which expression is not equal to $(6 \times 5) \times 7$ | 11 |
| | A. 5 × 48 | | A. 6×40 | |
| | B. 32×6 | | B. 6 × 35 | 12 |
| | C. $5 \times (8 \times 6)$ | | C. $6 \times (5 \times 7)$ | |
| | D. 40 × 6 | | D. 30×7 | |
| 9) | Which expression is not equal to $4 \times (6 \times 9)$ | 10) | Which expression is not equal to $5 \times (6 \times 10)$ | |
| | A. $(4+6) \times 9$ | | A. 30×10 | |
| | B. $(4 \times 6) \times 9$ | | B. $(5 \times 6) \times 10$ | |
| | C. 24 × 9 | | C. 5×60 | |
| | D. 4 × 54 | | D. 36 × 10 | |
| 11) | Which expression is not equal to $8 \times (7 \times 3)$ | 12) | Which expression is not equal to $(4 \times 2) \times 7$ | |
| | A. 8×21 | | A. 4 × 12 | |
| | B. 49×3 | | B. $4 \times (2 \times 7)$ | |
| | C. 56×3 | | C. 8 × 7 | |
| | D. $(8 \times 7) \times 3$ | | D. 4×14 | |

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| | Finding Asso | ociative Pr | operty Name: A | nswer Key |
|------|---|-------------|---|--------------|
| Dete | ermine which choice is not an equivale | nt equation | • | Answers |
| 1) | Which expression is not equal to $4 \times (2 \times 10)$ | 2) | Which expression is not equal to $(2 \times 3) \times 4$ | 1. <u>A</u> |
| | A. 10×10 B. $(4 \times 2) \times 10$ | | A. 2 × (3 × 4) B. 6 × 4 | 2. C |
| | C. 8×10 D. 4×20 | | C. 2 × 9 D. 2 × 12 | 3. <u>C</u> |
| 3) | Which expression is not equal to $8 \times (9 \times 7)$ | 4) | Which expression is not equal to $9 \times (7 \times 3)$ | 4. <u>C</u> |
| | A. $(8 \times 9) \times 7$ | | A. $(9 \times 7) \times 3$ | 5. A |
| | B. 72×7 | | B. 63 × 3 | |
| | C. (8+9)×7 | | C. (9+7) × 3 | 6. D |
| | D. 8 × 63 | | D. 9 × 21 | 0 |
| 5) | Which expression is not equal to $4 \times (6 \times 2)$ | 6) | Which expression is not equal to $3 \times (9 \times 6)$ | 7. <u>B</u> |
| | $A.4 \times 18$ | | A. 27×6 | 8. <u>A</u> |
| | B. $(4 \times 6) \times 2$ | | $B. 3 \times 54$ | |
| | $C.4 \times 12$ | | $C. (3 \times 9) \times 6$ | 9. <u>A</u> |
| | D. 24×2 | | D. $(3+9) \times 6$ | 10. D |
| 7) | Which expression is not equal to (5×8) $\times 6$ A. 5×48 | 8) | Which expression is not equal to (6×5) $\times 7$ A. 6×40 | 10. <u>B</u> |
| | B. 32×6 | | B. 6 × 35 | 12. A |
| | C. $5 \times (8 \times 6)$ | | C. $6 \times (5 \times 7)$ | |
| | D. 40 × 6 | | D. 30 × 7 | |
| 9) | Which expression is not equal to $4 \times (6 \times 9)$ | 10) | Which expression is not equal to $5 \times (6 \times 10)$ | |
| | A. $(4+6) \times 9$ | | A. 30×10 | |
| | B. $(4 \times 6) \times 9$ | | B. $(5 \times 6) \times 10$ | |
| | C. 24 × 9 | | C. 5×60 | |
| | D. 4 × 54 | | D. 36 × 10 | |
| 11) | Which expression is not equal to $8 \times (7 \times 3)$ | 12) | Which expression is not equal to $(4 \times 2) \times 7$ | |
| | A. 8 × 21 | | A. 4 × 12 | |
| | $B. 49 \times 3$ | | B. $4 \times (2 \times 7)$ | |
| | C. 56×3 | | C. 8 × 7 | |
| | D. (8×7) $\times 3$ | | D. 4 × 14 | |
| | | | | |

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 1-10
 92
 83
 75
 67
 58
 50
 42
 33
 25

 11-12
 8
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