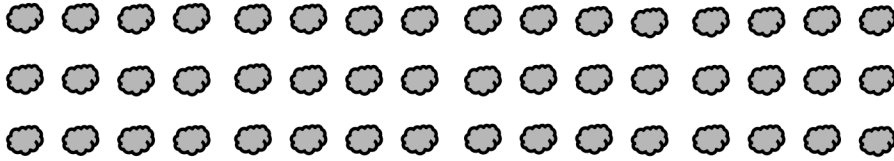


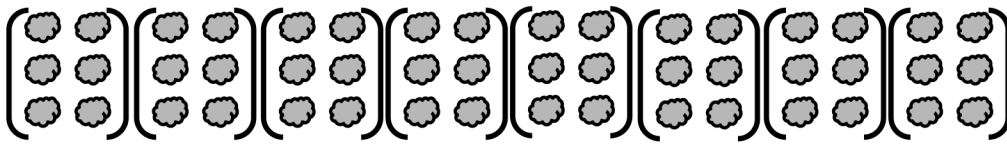
Name _____

Date _____

1. Use the array to complete the equation.



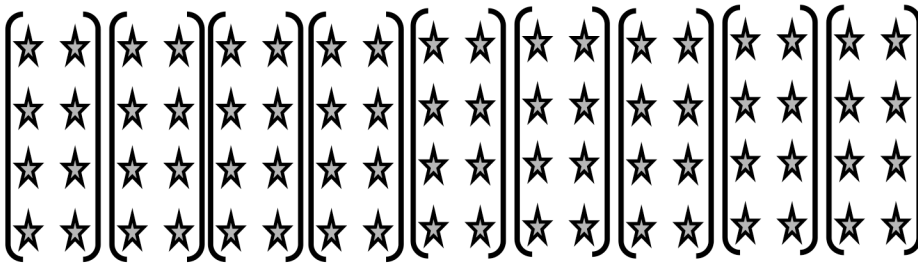
a. $3 \times 16 = \underline{\quad}$



b. $(3 \times \underline{\quad}) \times 8$
 $= \underline{\quad} \times \underline{\quad}$
 $= \underline{\quad}$



c. $4 \times 18 = \underline{\quad}$



d. $(4 \times \underline{\quad}) \times 9$
 $= \underline{\quad} \times \underline{\quad}$
 $= \underline{\quad}$

2. Place parentheses in the equations to simplify and solve.

$$\left. \begin{aligned} 12 \times 4 &= (6 \times 2) \times 4 \\ &= 6 \times (2 \times 4) \\ &= 6 \times \underline{8} \end{aligned} \right\} = \underline{48}$$

$$\left. \begin{aligned} \text{a. } 3 \times 14 &= 3 \times (2 \times 7) \\ &= 3 \times 2 \times 7 \\ &= \underline{\quad} \times 7 \end{aligned} \right\} = \underline{\quad}$$

$$\left. \begin{aligned} \text{b. } 3 \times 12 &= 3 \times (3 \times 4) \\ &= 3 \times 3 \times 4 \\ &= \underline{\quad} \times 4 \end{aligned} \right\} = \underline{\quad}$$

3. Solve. Then, match the related facts.

- | | |
|--|-------------------------|
| a. $20 \times 2 = \underline{40} =$ | $6 \times (5 \times 2)$ |
| b. $30 \times 2 = \underline{\quad} =$ | $8 \times (5 \times 2)$ |
| c. $35 \times 2 = \underline{\quad} =$ | $4 \times (5 \times 2)$ |
| d. $40 \times 2 = \underline{\quad} =$ | $7 \times (5 \times 2)$ |

Answer Key

1.
 - a. 48
 - b. 2; 6, 8; 48
 - c. 72
 - d. 2; 8, 9; 72
2.
 - a. 6, 42
 - b. 9, 36
3.
 - a. Answer provided.
 - b. $60; 6 \times (5 \times 2)$
 - c. $70; 7 \times (5 \times 2)$
 - d. $80; 8 \times (5 \times 2)$