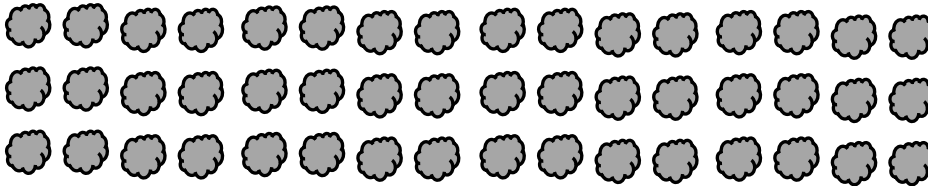


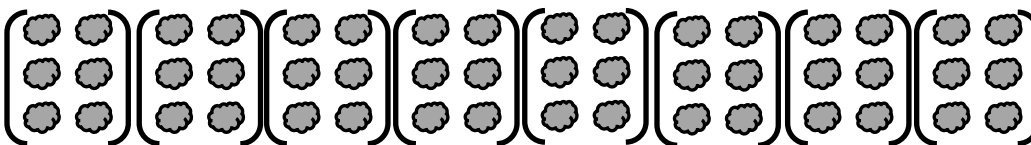
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Use the array to complete the equation.



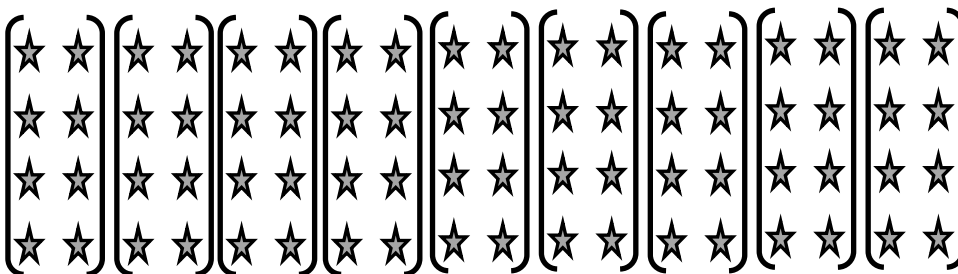
a.  $3 \times 16 = \underline{\hspace{2cm}}$



b.  $(3 \times \underline{\hspace{1cm}}) \times 8$   
 $= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$   
 $= \underline{\hspace{2cm}}$



c.  $4 \times 18 = \underline{\hspace{2cm}}$



d.  $(4 \times \underline{\hspace{1cm}}) \times 9$   
 $= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$   
 $= \underline{\hspace{2cm}}$

2. Place ( ) in the equations to simplify and solve.

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

$$\left. \begin{array}{l} 3 \times 14 = 3 \times (2 \times 7) \\ = (3 \times 2) \times 7 \\ = \underline{\quad} \times 7 \end{array} \right\} = \underline{\quad}$$

$$\left. \begin{array}{l} 3 \times 12 = 3 \times (3 \times 4) \\ = 3 \times 3 \times 4 \\ = \underline{\quad} \times 4 \end{array} \right\} = \underline{\quad}$$

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. $40 \times 2 = \underline{\quad} =$	$7 \times (5 \times 2)$