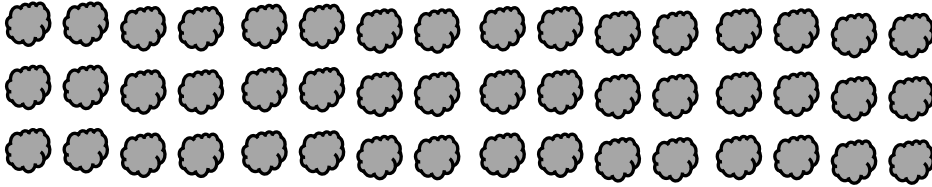


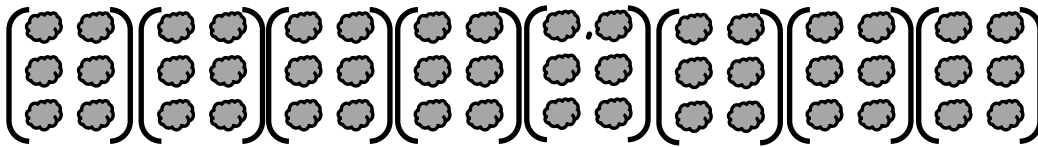
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Use the array to complete the equation.



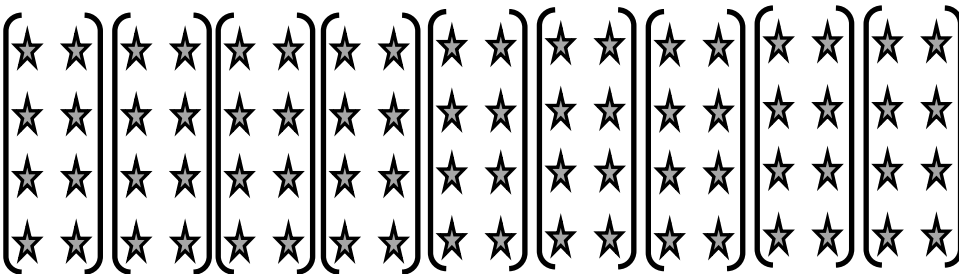
a.  $3 \times 16 = \underline{\hspace{2cm}}$



b.  $(3 \times \underline{2}) \times 8$   
 $= \underline{6} \times \underline{8}$   
 $= \underline{48}$



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



d.  $(4 \times \underline{2}) \times 9$   
 $= \underline{8} \times \underline{9}$   
 $= \underline{72}$

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

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

$$\left. \begin{aligned} 3 \times 14 &= 3 \times (2 \times 7) \\ &= (3 \times 2) \times 7 \\ &= \underline{6} \times 7 \end{aligned} \right\} = \underline{42}$$

$$\left. \begin{aligned} 3 \times 12 &= 3 \times (3 \times 4) \\ &= (3 \times 3) \times 4 \\ &= \underline{9} \times 4 \end{aligned} \right\} = \underline{36}$$

3. Solve. Then match the related facts.

- a.  $20 \times 2 = \underline{40} =$   ~~$6 \times (5 \times 2)$~~
- b.  $30 \times 2 = \underline{60} =$   ~~$8 \times (5 \times 2)$~~
- c.  $35 \times 2 = \underline{70} =$   ~~$4 \times (5 \times 2)$~~
- d.  $40 \times 2 = \underline{80} =$   ~~$7 \times (5 \times 2)$~~