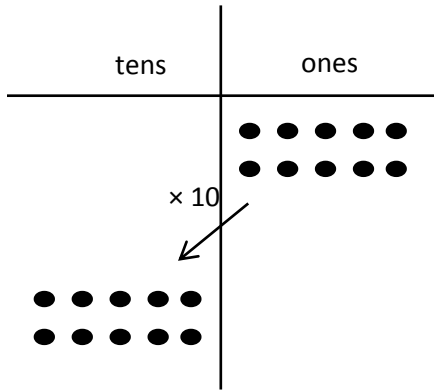


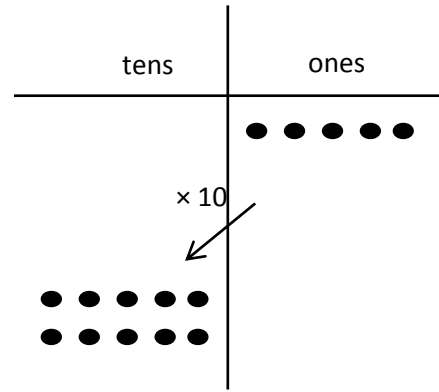
Name _____

Date _____

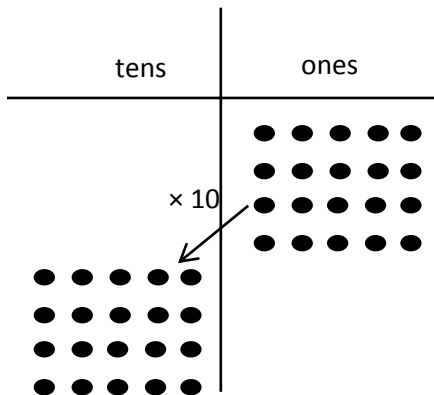
1. Use the chart to complete the equations. Then solve.



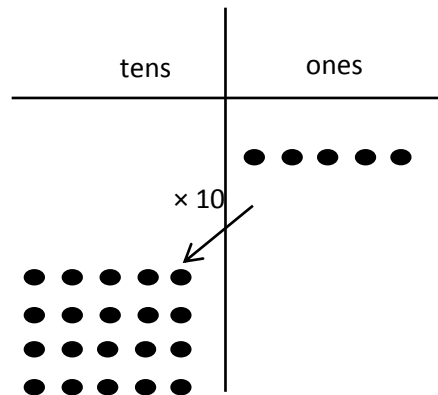
a. $(2 \times 5) \times 10$
 $= (10 \text{ ones}) \times 10$
 $= \underline{100}$



b. $2 \times (5 \times 10)$
 $= 2 \times (5 \text{ tens})$
 $= \underline{100}$



c. $(4 \times 5) \times 10$
 $= (\underline{20} \text{ ones}) \times 10$
 $= \underline{200}$



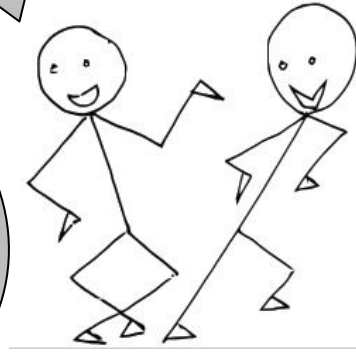
d. $4 \times (5 \times 10)$
 $= 4 \times (\underline{5} \text{ tens})$
 $= \underline{200}$

2. Solve. Place () in (c) and (d) as needed to find the related fact.

$$\begin{aligned} \text{a. } 3 \times 20 &= 3 \times (2 \times 10) \\ &= (3 \times 2) \times 10 \\ &= \underline{6} \times 10 \\ &= \underline{60} \end{aligned}$$

$$\begin{aligned} \text{b. } 3 \times 30 &= 3 \times (3 \times 10) \\ &= (3 \times 3) \times 10 \\ &= \underline{9} \times 10 \\ &= \underline{90} \end{aligned}$$

$$\begin{aligned} \text{c. } 3 \times 40 &= 3 \times (4 \times 10) \\ &= (3 \times 4) \times 10 \\ &= \underline{12} \times 10 \\ &= \underline{120} \end{aligned}$$



$$\begin{aligned} \text{d. } 3 \times 50 &= 3 \times 5 \times 10 \\ &= (3 \times 5) \times 10 \\ &= \underline{15} \times 10 \\ &= \underline{150} \end{aligned}$$

3. Danny solves 5×20 by thinking about 10×10 . Explain his strategy.

$$\begin{aligned} \underline{5 \times 20} &= 5 \times 2 \times 10 \\ &= (5 \times 2) \times 10 \\ &= \underline{10 \times 10} \end{aligned}$$

After factoring 20 to 2×10 , parentheses can be added to show that $5 \times 20 = 10 \times 10$.