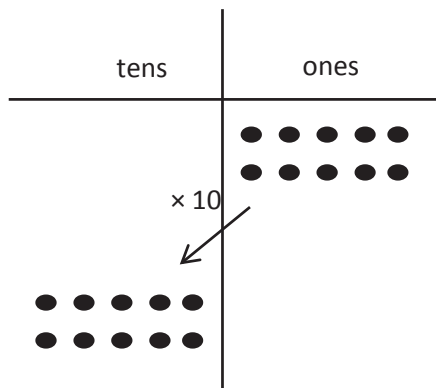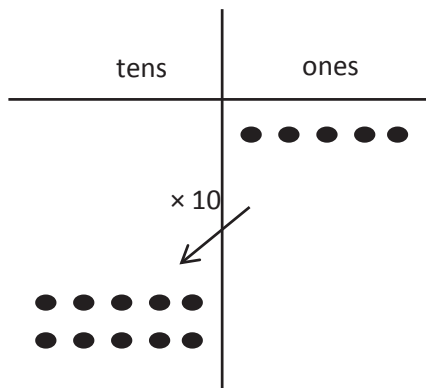Name _____ Date _____

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

a. $(2 \times 5) \times 10$

= (10 ones) × 10

= _____

b. $2 \times (5 \times 10)$

= 2 × (5 tens)

= _____

c. $(4 \times 5) \times 10$

= (_____ ones) × 10

= _____

d. $4 \times (5 \times 10)$

= 4 × (_____ tens)

= _____

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Lesson 20: Use place value strategies and the associative property
$n \times (m \times 10) = (n \times m) \times 10$ (where n and m are less than 10) to
multiply by multiples of 10.

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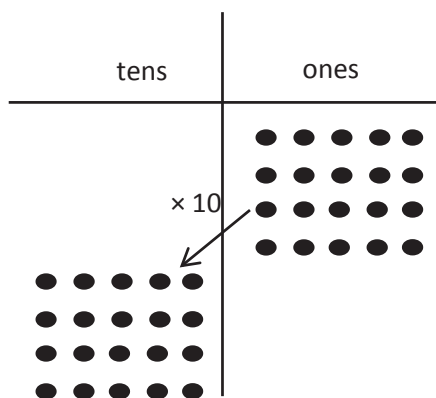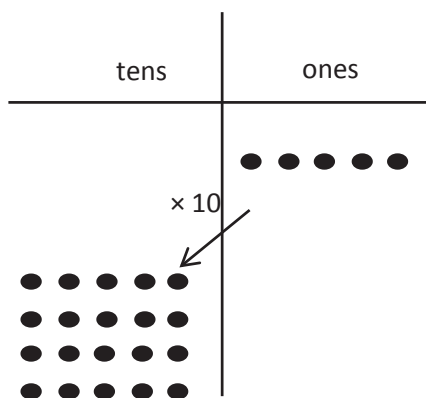
2. Solve. Place parentheses in (c) and (d) as needed to find the related fact.

a. $3 \times 20 = 3 \times (2 \times 10)$

$= (3 \times 2) \times 10$

$= \underline{6} \times 10$

$= \underline{}$

b. $3 \times 30 = 3 \times (3 \times 10)$

$= (3 \times 3) \times 10$

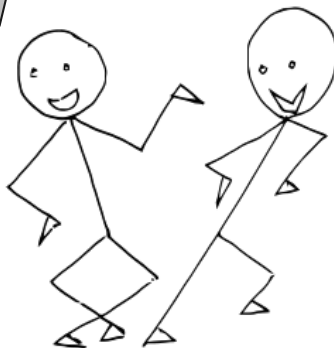$= \underline{} \times 10$

$= \underline{}$

c. $3 \times 40 = 3 \times (4 \times 10)$

$= 3 \times 4 \times 10$

$= \underline{} \times 10$

$= \underline{}$

d. $3 \times 50 = 3 \times 5 \times 10$

$= 3 \times 5 \times 10$

$= \underline{} \times 10$

$= \underline{}$

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

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