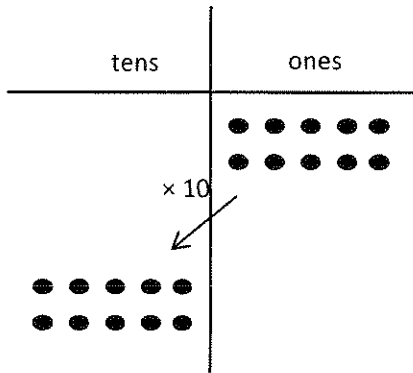Name _____ Date _____

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

tens	ones

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

= (10 ones) × 10

= _____

tens	ones

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

= 2 × (5 tens)

= _____

tens	ones

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

= (_____ ones) × 10

= _____

tens	ones

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

= 4 × (_____ tens)

= _____

EUREKA MATH

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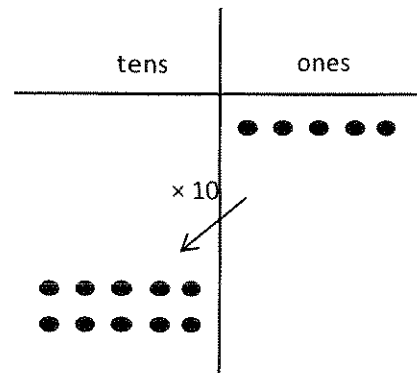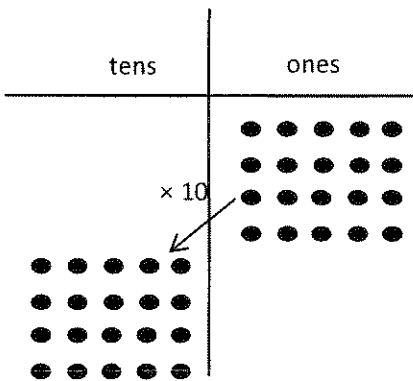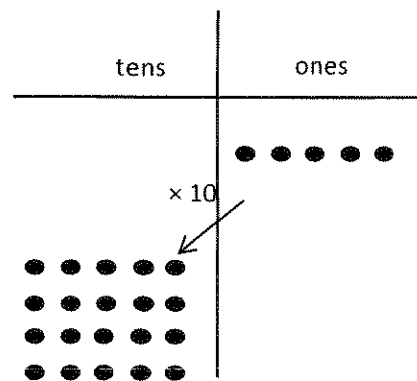
2. Solve. Place parentheses in (c) and (d) as needed to find the related fact.

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

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

$\qquad = \underline{\quad 6 \quad} \times 10$

$\qquad = \underline{\qquad}$

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

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

$\qquad = \underline{\qquad} \times 10$

$\qquad = \underline{\qquad}$

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

$\qquad = 3 \times 4 \times 10$

$\qquad = \underline{\qquad} \times 10$

$\qquad = \underline{\qquad}$

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

$\qquad = 3 \times 5 \times 10$

$\qquad = \underline{\qquad} \times 10$

$\qquad = \underline{\qquad}$

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

EUREKA MATH™

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