Name _____   Date _____

1. Use the array to complete the equation.

a. 3 × 16 = _____

b. (3 × _____) × 8

   = _____ × _____

   = _____

c. 4 × 18 = _____

d. (4 × _____) × 9

   = _____ × _____

   = _____

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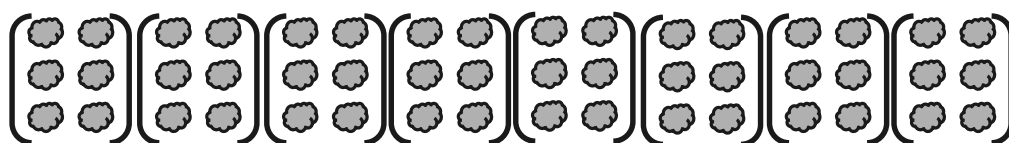
2. Place parentheses in the equations to simplify and solve.

12 × 4 = (6 × 2) × 4
   = 6 × (2 × 4)   = __**48**__
   = 6 × __**8**__

a.   3 × 14 = 3 × (2 × 7)
   = 3 × 2 × 7   = _____
   = ____ × 7

b.   3 × 12 = 3 × (3 × 4)
   = 3 × 3 × 4   = _____
   = ____ × 4

3. Solve. Then, match the related facts.

a.   20 × 2 = __**40**__ =   6 × (5 × 2)

b.   30 × 2 = _____ =   8 × (5 × 2)

c.   35 × 2 = _____ =   4 × (5 × 2)

d.   40 × 2 = _____ =   7 × (5 × 2)

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Lesson 9:   Model the associative property as a strategy to multiply.

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