Name: _____ Date: _____

ANSWERS Distributive Property Word Problems

The **distributive property** is a tool to make multiplication with larger numbers easier.

To use the distributive property:
Break one factor into two addends, multiply both addends by the other factor, and add together both products.

Break up the bigger number into two addends

16 x 5
(10 + 6) x 5
(10 x 5) + (6 x 5)
50 + 30 = 80

16 x 5 = 80

Directions: *Solve each problem below using the distributive property. Show your work.*

1. Shanna made popsicles on a hot summer day. She made 8 trays of popsicles. Each tray makes 16 popsicles. How many popsicles did she make?

8 x 16
8 x (10 + 6)
(8 x 10) + (8 x 6)
80 + 48
8 x 16 = 128

2. Saijleen sold 12 cups of lemonade each hour at her lemonade stand. She was outside for a total of 4 hours. How many cups of lemonade did she sell?

12 x 4
(8 + 4) x 4
(8 x 4) + (4 x 4)
32 + 16
12 x 4 = 48

3. There are 14 crackers in each package. If the family brought 6 packages on the road trip, how many crackers did they have?

14 x 6
(6 + 8) x 6
(6 x 6) + (8 x 6)
36 + 48
14 x 6 = 84

4. Jeremy gets french fries everyday for lunch at school. If he eats 26 french fries each day, how many fries does he eat in a school week?

26 x 5
(20 + 6) x 5
(20 x 5) + (6 x 5)
100 + 30
26 x 5 = 130

5. The soccer league is holding 5 camps this summer. There will be 15 players in each camp. How many players will attend soccer camp this summer?

15 x 5
5 x (10 + 5)
(5 x 10) + (5 x 5)
50 + 25
5 x 15 = 75

6. The chef needed eggs for the new meal on the menu. Each egg carton has 18 eggs. She ordered 9 cartons of eggs. How many eggs did the chef need for her special meal?

18 x 9
(10 + 8) x 9
(10 x 9) + (8 x 9)
90 + 72
18 x 9 = 162