Name: _____   Date: _____

ANSWERS Break it Up: Distributive Property 3

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. **15 x 9**

    (8 + 7) x 9
    (8 x 9) + (7 x 9)
    72 + 63

    15 x 9 = 135

2. **5 x 14**

    5 x (10 + 4)
    (5 x 10) + (5 x 4)
    50 + 20

    5 x 14 = 70

3. **12 x 8**

    (8 + 4) x 8
    (8 x 8) + (4 x 8)
    64 + 32

    12 x 8 = 96

4. **14 x 10**

    (8 + 6) x 10
    (8 x 10) + (6 x 10)
    80 + 60

    14 x 10 = 140

5. **18 x 7**

    (9 + 9) x 7
    (9 x 7) + (9 x 7)
    63 + 63

    18 x 7 = 126

6. **4 x 13**

    4 x (6 + 7)
    (4 x 6) + (4 x 7)
    24 + 28

    4 x 13 = 52

7. **8 x 19**

    8 x (10 + 9)
    (8 x 10) + (8 x 9)
    80 + 72

    8 x 19 = 152

8. **16 x 3**

    (7 + 9) x 3
    (7 x 3) + (9 x 3)
    21 + 27

    16 x 3 = 48

9. **4 x 15**

    4 x (10 + 5)
    (4 x 10) + (4 x 5)
    40 + 20

    4 x 15 = 60