MULTIPLYING LARGER NUMBERS

USING THE DISTRIBUTIVE PROPERTY

ANSWERS

WE CAN USE THE DISTRIBUTIVE PROPERTY TO HELP US SEPARATE LARGER NUMBERS INTO SMALLER PIECES.

WHEN YOU MULTIPLY 8 x 20, SOLVE 8 x 2 AND THEN PUT A ZERO AT THE END.

WE CAN CHANGE THE 27 INTO (20 + 7) AND THEN DISTRIBUTE THE 8 TO BOTH NUMBERS.

DISTRIBUTE MEANS TO DELIVER OR GIVE OUT. SO WE ARE GIVING THE 8 TO THE 20 AND THE 7.

$$8 \times 27 = 8 \times (20 + 7)$$

$$8 \times 20 = 160$$

$$+ \quad 8 \times 7 = 56$$

$$8 \times 27 = 216$$

NOW YOUR TURN.

6 x 5 = 30, THEN PLACE A ZERO AT THE END

1. 6×52

   $6 \times 50 = 300$

   $+ \quad 6 \times 2 = 12$

   $6 \times 52 = 312$

2. 5×38

   $5 \times 30 = 150$

   $+ \quad 5 \times 8 = 40$

   $5 \times 38 = 190$

3. 9×67

   $9 \times 60 = 540$

   $+ \quad 9 \times 7 = 63$

   $9 \times 67 = 603$

4. 8×36

   $8 \times 30 = 240$

   $+ \quad 8 \times 6 = 48$

   $8 \times 36 = 288$

5. 15×41

   $15 \times 40 = 600$

   $+ \quad 15 \times 1 = 15$

   $15 \times 41 = 615$

6. 40×34

   $40 \times 30 = 1,200$

   $+ \quad 40 \times 4 = 160$

   $40 \times 34 = 1,360$

7. 5×73

   $5 \times 70 = 350$

   $+ \quad 5 \times 3 = 15$

   $5 \times 73 = 365$

8. 8×57

   $8 \times 50 = 400$

   $+ \quad 8 \times 7 = 56$

   $8 \times 57 = 456$

9. 7×43

   $7 \times 40 = 280$

   $+ \quad 7 \times 3 = 21$

   $7 \times 43 = 301$

10. 60×28

    $60 \times 20 = 1,200$

    $+ \quad 60 \times 8 = 480$

    $60 \times 28 = 1,680$

11. 9×91

    $9 \times 90 = 810$

    $+ \quad 9 \times 1 = 9$

    $9 \times 91 = 819$

12. 4×112

    $4 \times 100 = 400$

    $+ \quad 4 \times 12 = 48$

    $4 \times 112 = 448$

13. 7×84

    $7 \times 80 = 560$

    $+ \quad 7 \times 4 = 28$

    $7 \times 84 = 588$

14. 6×28

    $6 \times 20 = 120$

    $+ \quad 6 \times 8 = 48$

    $6 \times 28 = 168$

15. 5×39

    $5 \times 30 = 150$

    $+ \quad 5 \times 9 = 45$

    $5 \times 39 = 195$