

MULTIPLYING LARGER NUMBERS USING THE DISTRIBUTIVE PROPERTY

ANSWERS

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

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



$$\begin{array}{r}
 8 \times 27 = 8 \times (20 + 7) \\
 8 \times 20 = 160 \\
 + 8 \times 7 = 56 \\
 \hline
 8 \times 27 = 216
 \end{array}$$



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

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

NOW YOUR TURN.

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

1.
$$\begin{array}{r}
 6 \times 52 \\
 6 \times 50 = 300 \\
 + 6 \times 2 = 12 \\
 \hline
 6 \times 52 = 312
 \end{array}$$

2.
$$\begin{array}{r}
 5 \times 38 \\
 5 \times 30 = 150 \\
 + 5 \times 8 = 40 \\
 \hline
 5 \times 38 = 190
 \end{array}$$

3.
$$\begin{array}{r}
 9 \times 67 \\
 9 \times 60 = 540 \\
 + 9 \times 7 = 63 \\
 \hline
 9 \times 67 = 603
 \end{array}$$

4.
$$\begin{array}{r}
 8 \times 36 \\
 8 \times 30 = 240 \\
 + 8 \times 6 = 48 \\
 \hline
 8 \times 36 = 288
 \end{array}$$

5.
$$\begin{array}{r}
 15 \times 41 \\
 15 \times 40 = 600 \\
 + 15 \times 1 = 15 \\
 \hline
 15 \times 41 = 615
 \end{array}$$

6.
$$\begin{array}{r}
 40 \times 34 \\
 40 \times 30 = 1,200 \\
 + 40 \times 4 = 160 \\
 \hline
 40 \times 34 = 1,360
 \end{array}$$

7.
$$\begin{array}{r}
 5 \times 73 \\
 5 \times 70 = 350 \\
 + 5 \times 3 = 15 \\
 \hline
 5 \times 73 = 365
 \end{array}$$

8.
$$\begin{array}{r}
 8 \times 57 \\
 8 \times 50 = 400 \\
 + 8 \times 7 = 56 \\
 \hline
 8 \times 57 = 456
 \end{array}$$

9.
$$\begin{array}{r}
 7 \times 43 \\
 7 \times 40 = 280 \\
 + 7 \times 3 = 21 \\
 \hline
 7 \times 43 = 301
 \end{array}$$

10.
$$\begin{array}{r}
 60 \times 28 \\
 60 \times 20 = 1,200 \\
 + 60 \times 8 = 480 \\
 \hline
 60 \times 28 = 1,680
 \end{array}$$

11.
$$\begin{array}{r}
 9 \times 91 \\
 9 \times 90 = 810 \\
 + 9 \times 1 = 9 \\
 \hline
 9 \times 91 = 819
 \end{array}$$

12.
$$\begin{array}{r}
 4 \times 112 \\
 4 \times 100 = 400 \\
 + 4 \times 12 = 48 \\
 \hline
 4 \times 112 = 448
 \end{array}$$

13.
$$\begin{array}{r}
 7 \times 84 \\
 7 \times 80 = 560 \\
 + 7 \times 4 = 28 \\
 \hline
 7 \times 84 = 588
 \end{array}$$

14.
$$\begin{array}{r}
 6 \times 28 \\
 6 \times 20 = 120 \\
 + 6 \times 8 = 48 \\
 \hline
 6 \times 28 = 168
 \end{array}$$

15.
$$\begin{array}{r}
 5 \times 39 \\
 5 \times 30 = 150 \\
 + 5 \times 9 = 45 \\
 \hline
 5 \times 39 = 195
 \end{array}$$