

# Worksheet

07/29/2020

Free on dw-math.com

Problem quickname: 9523

1)

Calculate the product. Decompose the multiplication problem as you do so.

Quick:  
9523

$$\begin{array}{r}
 73 \cdot 8 = ? \\
 \hline
 70 \cdot 8 = 560 \\
 3 \cdot 8 = 24 \\
 \hline
 73 \cdot 8 = 584 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 57 \cdot 6 = ? \\
 \hline
 50 \cdot 6 = 300 \\
 7 \cdot 6 = 42 \\
 \hline
 57 \cdot 6 = 342 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 89 \cdot 3 = ? \\
 \hline
 80 \cdot 3 = 240 \\
 9 \cdot 3 = 27 \\
 \hline
 89 \cdot 3 = 267 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 64 \cdot 5 = ? \\
 \hline
 60 \cdot 5 = 300 \\
 4 \cdot 5 = 20 \\
 \hline
 64 \cdot 5 = 320 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 253 \cdot 3 = ? \\
 \hline
 200 \cdot 3 = 600 \\
 50 \cdot 3 = 150 \\
 3 \cdot 3 = 9 \\
 \hline
 253 \cdot 3 = 759 \\
 \hline
 \hline
 \end{array}$$

2)

Calculate the product. Decompose the multiplication problem as shown in example a).

Quick:  
9523

$$\begin{array}{r}
 221 \cdot 3 = ? \\
 \hline
 200 \cdot 3 = 600 \\
 20 \cdot 3 = 60 \\
 1 \cdot 3 = 3 \\
 \hline
 221 \cdot 3 = 663 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 36 \cdot 8 = ? \\
 \hline
 30 \cdot 8 = 240 \\
 6 \cdot 8 = 48 \\
 \hline
 36 \cdot 8 = 288 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 50 \cdot 9 = ? \\
 \hline
 50 \cdot 9 = 450 \\
 50 \cdot 9 = 450 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 58 \cdot 8 = ? \\
 \hline
 50 \cdot 8 = 400 \\
 8 \cdot 8 = 64 \\
 \hline
 58 \cdot 8 = 464 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 3 \ 2 \ 5 \cdot 3 = ? \\
 \hline
 3 \ 0 \ 0 \cdot 3 = 9 \ 0 \ 0 \\
 2 \ 0 \cdot 3 = 6 \ 0 \\
 \hline
 e) \quad 5 \cdot 3 = 1 \ 5 \\
 \hline
 3 \ 2 \ 5 \cdot 3 = 9 \ 7 \ 5 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 4 \ 7 \ 4 \cdot 2 = ? \\
 \hline
 4 \ 0 \ 0 \cdot 2 = 8 \ 0 \ 0 \\
 7 \ 0 \cdot 2 = 1 \ 4 \ 0 \\
 \hline
 f) \quad 4 \cdot 2 = 8 \\
 \hline
 4 \ 7 \ 4 \cdot 2 = 9 \ 4 \ 8 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 1 \ 2 \ 8 \cdot 7 = ? \\
 \hline
 1 \ 0 \ 0 \cdot 7 = 7 \ 0 \ 0 \\
 2 \ 0 \cdot 7 = 1 \ 4 \ 0 \\
 \hline
 g) \quad 8 \cdot 7 = 5 \ 6 \\
 \hline
 1 \ 2 \ 8 \cdot 7 = 8 \ 9 \ 6 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 5 \ 2 \cdot 8 = ? \\
 \hline
 5 \ 0 \cdot 8 = 4 \ 0 \ 0 \\
 2 \cdot 8 = 1 \ 6 \\
 \hline
 h) \quad 5 \ 2 \cdot 8 = 4 \ 1 \ 6 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 2 \ 3 \ 1 \cdot 3 = ? \\
 \hline
 2 \ 0 \ 0 \cdot 3 = 6 \ 0 \ 0 \\
 3 \ 0 \cdot 3 = 9 \ 0 \\
 \hline
 i) \quad 1 \cdot 3 = 3 \\
 \hline
 2 \ 3 \ 1 \cdot 3 = 6 \ 9 \ 3 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 8 \ 2 \cdot 7 = ? \\
 \hline
 8 \ 0 \cdot 7 = 5 \ 6 \ 0 \\
 2 \cdot 7 = 1 \ 4 \\
 \hline
 j) \quad 8 \ 2 \cdot 7 = 5 \ 7 \ 4 \\
 \hline
 \hline
 \end{array}$$

3)

Calculate the product. Decompose the multiplication problem as shown in example a).

Quick:  
9523

$$\begin{array}{r}
 1 \ 1 \ 2 \cdot 4 = ? \\
 \hline
 1 \ 0 \ 0 \cdot 4 = 4 \ 0 \ 0 \\
 1 \ 0 \cdot 4 = 4 \ 0 \\
 \hline
 a) \quad 2 \cdot 4 = 8 \\
 \hline
 1 \ 1 \ 2 \cdot 4 = 4 \ 4 \ 8 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 1 \ 2 \ 3 \cdot 7 = ? \\
 \hline
 1 \ 0 \ 0 \cdot 7 = 7 \ 0 \ 0 \\
 2 \ 0 \cdot 7 = 1 \ 4 \ 0 \\
 \hline
 b) \quad 3 \cdot 7 = 2 \ 1 \\
 \hline
 1 \ 2 \ 3 \cdot 7 = 8 \ 6 \ 1 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 1 \ 6 \ 4 \cdot 4 = ? \\
 \hline
 1 \ 0 \ 0 \cdot 4 = 4 \ 0 \ 0 \\
 6 \ 0 \cdot 4 = 2 \ 4 \ 0 \\
 \hline
 c) \quad 4 \cdot 4 = 1 \ 6 \\
 \hline
 1 \ 6 \ 4 \cdot 4 = 6 \ 5 \ 6 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 4 \ 0 \cdot 8 = ? \\
 \hline
 4 \ 0 \cdot 8 = 3 \ 2 \ 0 \\
 4 \ 0 \cdot 8 = 3 \ 2 \ 0 \\
 \hline
 d) \quad 4 \ 0 \cdot 8 = 3 \ 2 \ 0 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 3 \ 7 \ 3 \cdot 2 = ? \\
 \hline
 3 \ 0 \ 0 \cdot 2 = 6 \ 0 \ 0 \\
 7 \ 0 \cdot 2 = 1 \ 4 \ 0 \\
 \hline
 e) \quad 3 \cdot 2 = 6 \\
 \hline
 3 \ 7 \ 3 \cdot 2 = 7 \ 4 \ 6 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 2 \ 1 \cdot 7 = ? \\
 \hline
 2 \ 0 \cdot 7 = 1 \ 4 \ 0 \\
 1 \cdot 7 = 7 \\
 \hline
 f) \quad 2 \ 1 \cdot 7 = 1 \ 4 \ 7 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 1\ 2\ 4 \cdot 2 = ? \\
 \hline
 1\ 0\ 0 \cdot 2 = 2\ 0\ 0 \\
 2\ 0 \cdot 2 = 4\ 0 \\
 \hline
 1\ 2\ 4 \cdot 2 = 2\ 4\ 8 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 3\ 1\ 3 \cdot 3 = ? \\
 \hline
 3\ 0\ 0 \cdot 3 = 9\ 0\ 0 \\
 1\ 0 \cdot 3 = 3\ 0 \\
 \hline
 3\ 1\ 3 \cdot 3 = 9\ 3\ 9 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 2\ 3\ 3 \cdot 2 = ? \\
 \hline
 2\ 0\ 0 \cdot 2 = 4\ 0\ 0 \\
 3\ 0 \cdot 2 = 6\ 0 \\
 \hline
 2\ 3\ 3 \cdot 2 = 4\ 6\ 6 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 6\ 5 \cdot 6 = ? \\
 \hline
 6\ 0 \cdot 6 = 3\ 6\ 0 \\
 5 \cdot 6 = 3\ 0 \\
 \hline
 6\ 5 \cdot 6 = 3\ 9\ 0 \\
 \hline
 \hline
 \end{array}$$

4)

Calculate the product. Decompose the multiplication problem as shown in example a).

Quick:  
9523

$$\begin{array}{r}
 1\ 2\ 8 \cdot 5 = ? \\
 \hline
 1\ 0\ 0 \cdot 5 = 5\ 0\ 0 \\
 2\ 0 \cdot 5 = 1\ 0\ 0 \\
 \hline
 1\ 2\ 8 \cdot 5 = 6\ 4\ 0 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 1\ 7\ 4 \cdot 3 = ? \\
 \hline
 1\ 0\ 0 \cdot 3 = 3\ 0\ 0 \\
 7\ 0 \cdot 3 = 2\ 1\ 0 \\
 \hline
 1\ 7\ 4 \cdot 3 = 5\ 2\ 2 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 2\ 5 \cdot 8 = ? \\
 \hline
 2\ 0 \cdot 8 = 1\ 6\ 0 \\
 5 \cdot 8 = 4\ 0 \\
 \hline
 2\ 5 \cdot 8 = 2\ 0\ 0 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 1\ 6\ 4 \cdot 5 = ? \\
 \hline
 1\ 0\ 0 \cdot 5 = 5\ 0\ 0 \\
 6\ 0 \cdot 5 = 3\ 0\ 0 \\
 \hline
 1\ 6\ 4 \cdot 5 = 8\ 2\ 0 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 6\ 6 \cdot 4 = ? \\
 \hline
 6\ 0 \cdot 4 = 2\ 4\ 0 \\
 6 \cdot 4 = 2\ 4 \\
 \hline
 6\ 6 \cdot 4 = 2\ 6\ 4 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 1\ 6\ 0 \cdot 5 = ? \\
 \hline
 1\ 0\ 0 \cdot 5 = 5\ 0\ 0 \\
 6\ 0 \cdot 5 = 3\ 0\ 0 \\
 \hline
 1\ 6\ 0 \cdot 5 = 8\ 0\ 0 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 3\ 2\ 7 \cdot 3 = ? \\
 \hline
 3\ 0\ 0 \cdot 3 = 9\ 0\ 0 \\
 2\ 0 \cdot 3 = 6\ 0 \\
 \hline
 3\ 2\ 7 \cdot 3 = 9\ 8\ 1 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 1\ 8\ 1 \cdot 5 = ? \\
 \hline
 1\ 0\ 0 \cdot 5 = 5\ 0\ 0 \\
 8\ 0 \cdot 5 = 4\ 0\ 0 \\
 \hline
 1\ 8\ 1 \cdot 5 = 9\ 0\ 5 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 2 \ 2 \ 5 \cdot 3 = ? \\
 \hline
 2 \ 0 \ 0 \cdot 3 = 6 \ 0 \ 0 \\
 \phantom{2} \ 2 \ 0 \cdot 3 = \phantom{6} \ 6 \ 0 \\
 \phantom{2} \phantom{2} \ 5 \cdot 3 = \phantom{6} \phantom{6} \ 1 \ 5 \\
 \hline
 2 \ 2 \ 5 \cdot 3 = 6 \ 7 \ 5 \\
 \hline
 \hline
 \end{array}$$

$$\begin{array}{r}
 5 \ 8 \cdot 5 = ? \\
 \hline
 5 \ 0 \cdot 5 = 2 \ 5 \ 0 \\
 \phantom{5} \ 8 \cdot 5 = \phantom{2} \ 4 \ 0 \\
 \hline
 5 \ 8 \cdot 5 = 2 \ 9 \ 0 \\
 \hline
 \hline
 \end{array}$$

Good Luck!