

Name:

Date: Score:

Multiplying Large Numbers with Place Values



Example -

$$\begin{array}{r} 3267 \\ \times 8 \\ \hline 26,136 \end{array}$$

$$\begin{array}{r} 3 \times 8 \times 1000 = 24,000 \\ 2 \times 8 \times 100 = 1600 \\ 6 \times 8 \times 10 = 480 \\ 7 \times 8 \times 1 = 56 \\ \hline \text{Total} = 26,136 \end{array}$$

① $\begin{array}{r} 2654 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} _ \times _ \times 1000 = \\ _ \times _ \times 100 = \\ _ \times _ \times 10 = \\ _ \times _ \times 1 = \\ \hline \text{Total} = \end{array}$

② $\begin{array}{r} 5597 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} _ \times _ \times 1000 = \\ _ \times _ \times 100 = \\ _ \times _ \times 10 = \\ _ \times _ \times 1 = \\ \hline \text{Total} = \end{array}$

③ $\begin{array}{r} 9837 \\ \times 8 \\ \hline \end{array}$ $\begin{array}{r} _ \times _ \times 1000 = \\ _ \times _ \times 100 = \\ _ \times _ \times 10 = \\ _ \times _ \times 1 = \\ \hline \text{Total} = \end{array}$

④ $\begin{array}{r} 6238 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} _ \times _ \times 1000 = \\ _ \times _ \times 100 = \\ _ \times _ \times 10 = \\ _ \times _ \times 1 = \\ \hline \text{Total} = \end{array}$

⑤ $\begin{array}{r} 3496 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} _ \times _ \times 1000 = \\ _ \times _ \times 100 = \\ _ \times _ \times 10 = \\ _ \times _ \times 1 = \\ \hline \text{Total} = \end{array}$

⑥ $\begin{array}{r} 6231 \\ \times 7 \\ \hline \end{array}$ $\begin{array}{r} _ \times _ \times 1000 = \\ _ \times _ \times 100 = \\ _ \times _ \times 10 = \\ _ \times _ \times 1 = \\ \hline \text{Total} = \end{array}$

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Example -

$\begin{array}{r} 3267 \\ \times 8 \\ \hline 26,136 \end{array}$	$3 \times 8 \times 1000 = 24,000$ $2 \times 8 \times 100 = 1600$ $6 \times 8 \times 10 = 480$ $7 \times 8 \times 1 = 56$ $\text{Total} = \underline{26,136}$
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Answers

①
$$\begin{array}{r} 2654 \\ \times 3 \\ \hline 7,962 \end{array}$$

$2 \times 3 \times 1000 = 6,000$
$6 \times 3 \times 100 = 1,800$
$5 \times 3 \times 10 = 150$
$4 \times 3 \times 1 = 12$
Total = <u>7,962</u>

②
$$\begin{array}{r} 5597 \\ \times 2 \\ \hline 11,194 \end{array}$$

$5 \times 2 \times 1000 = 10,000$
$5 \times 2 \times 100 = 1,000$
$9 \times 2 \times 10 = 180$
$7 \times 2 \times 1 = 14$
Total = <u>11,194</u>

③
$$\begin{array}{r} 9837 \\ \times 8 \\ \hline 78,696 \end{array}$$

$9 \times 8 \times 1000 = 72,000$
$8 \times 8 \times 100 = 6,400$
$3 \times 8 \times 10 = 240$
$7 \times 8 \times 1 = 56$
Total = <u>78,696</u>

④
$$\begin{array}{r} 6238 \\ \times 4 \\ \hline 24,952 \end{array}$$

$6 \times 4 \times 1000 = 24,000$
$2 \times 4 \times 100 = 800$
$3 \times 4 \times 10 = 120$
$8 \times 4 \times 1 = 32$
Total = <u>24,952</u>

⑤
$$\begin{array}{r} 3496 \\ \times 4 \\ \hline 13,984 \end{array}$$

$3 \times 4 \times 1000 = 12,000$
$4 \times 4 \times 100 = 1,600$
$9 \times 4 \times 10 = 360$
$6 \times 4 \times 1 = 24$
Total = <u>13,984</u>

⑥
$$\begin{array}{r} 6231 \\ \times 7 \\ \hline 43,617 \end{array}$$

$6 \times 7 \times 1000 = 42,000$
$2 \times 7 \times 100 = 1,400$
$3 \times 7 \times 10 = 210$
$1 \times 7 \times 1 = 7$
Total = <u>43,617</u>