

Partial Product Multiplication

Example

$$\begin{array}{r} 45 \\ \times 23 \\ \hline \square\square \\ \square\square \\ + \square\square \end{array} = 3 \times 5$$

$$\begin{array}{r} 45 \\ \times 23 \\ \hline \square\square \\ \square\square \\ + \square\square \end{array} = 3 \times 5, 3 \times 40$$

$$\begin{array}{r} 45 \\ \times 23 \\ \hline \square\square \\ \square\square \\ + \square\square \end{array} = 3 \times 5, 3 \times 40, 20 \times 5$$

$$\begin{array}{r} 45 \\ \times 23 \\ \hline \square\square \\ \square\square \\ + \square\square \end{array} = 3 \times 5, 3 \times 40, 20 \times 5, 20 \times 40$$

$$\begin{array}{r} 45 \\ \times 23 \\ \hline 15 \\ 120 \\ 100 \\ + 800 \\ \hline 1,035 \end{array} = 3 \times 5, 3 \times 40, 20 \times 5, 20 \times 40$$

Solve using partial products.

a.
$$\begin{array}{r} 36 \\ \times 17 \\ \hline \square\square \\ \square\square \\ + \square\square \end{array}$$

b.
$$\begin{array}{r} 48 \\ \times 53 \\ \hline \square\square \\ \square\square \\ + \square\square \end{array}$$

c.
$$\begin{array}{r} 57 \\ \times 29 \\ \hline \square\square \\ \square\square \\ + \square\square \end{array}$$



d.
$$\begin{array}{r} \square\square \\ \square\square \\ + \square, \square\square \end{array}$$

e.
$$\begin{array}{r} \square\square \\ \square\square \\ + \square, \square\square \end{array}$$

f.
$$\begin{array}{r} \square\square \\ \square\square \\ + \square\square \end{array}$$

g.
$$\begin{array}{r} 26 \\ \times 87 \\ \hline \square\square \\ \square\square \\ \square\square \\ + \square, \square\square \end{array}$$

h.
$$\begin{array}{r} 54 \\ \times 39 \\ \hline \square\square \\ \square\square \\ \square\square \\ + \square, \square\square \end{array}$$

i.
$$\begin{array}{r} 78 \\ \times 21 \\ \hline \square\square \\ \square\square \\ \square\square \\ + \square, \square\square \end{array}$$

Partial Product Multiplication

Solve using partial products.

a.
$$\begin{array}{r} 36 \\ \times 17 \\ \hline \end{array}$$

$$\boxed{4} \boxed{2} = 7 \times 6$$

b.
$$\begin{array}{r} 48 \\ \times 53 \\ \hline \end{array}$$

$$\boxed{2} \boxed{4} = 3 \times 8$$

c.
$$\begin{array}{r} 57 \\ \times 29 \\ \hline \end{array}$$

$$\boxed{6} \boxed{3} = 9 \times 7$$

Preview

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the printable version of this worksheet.



$$\begin{array}{r} + \boxed{1} \boxed{,} \boxed{6} \boxed{0} \boxed{0} \\ \hline \end{array} = 80 \times 20$$

$$2,262$$

$$\begin{array}{r} + \boxed{1} \boxed{,} \boxed{5} \boxed{0} \boxed{0} \\ \hline \end{array} = 30 \times 50$$

$$2,106$$

$$\begin{array}{r} + \boxed{1} \boxed{,} \boxed{4} \boxed{0} \boxed{0} \\ \hline \end{array} = 20 \times 70$$

$$1,638$$