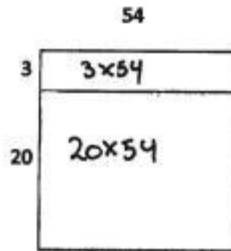


Name Jack Date \_\_\_\_\_

1. Express  $23 \times 54$  as two partial products using the distributive property. Solve.

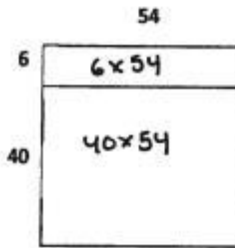


$23 \times 54 = (3 \text{ fifty-fours}) + (20 \text{ fifty-fours})$

$$\begin{array}{r} 54 \\ \times 23 \\ \hline 162 \\ + 1080 \\ \hline 1,242 \end{array}$$

$$\begin{array}{r} 54 \\ \times 3 \\ \hline 162 \end{array} \quad \begin{array}{r} 54 \\ \times 20 \\ \hline 1080 \end{array}$$

2. Express  $46 \times 54$  as two partial products using the distributive property. Solve.

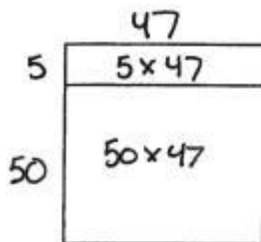


$46 \times 54 = (6 \text{ fifty-fours}) + (40 \text{ fifty-fours})$

$$\begin{array}{r} 54 \\ \times 46 \\ \hline 324 \\ + 2160 \\ \hline 2,484 \end{array}$$

$$\begin{array}{r} 54 \\ \times 6 \\ \hline 324 \end{array} \quad \begin{array}{r} 54 \\ \times 40 \\ \hline 2160 \end{array}$$

3. Express  $55 \times 47$  using two partial products using the distributive property. Solve.



$55 \times 47 = (5 \times 47) + (50 \times 47)$

$$\begin{array}{r} 47 \\ \times 55 \\ \hline 235 \\ + 2350 \\ \hline 2,585 \end{array}$$

$$\begin{array}{r} 47 \\ \times 5 \\ \hline 235 \end{array} \quad \begin{array}{r} 47 \\ \times 50 \\ \hline 2350 \end{array}$$

4. Solve the following using 2 partial products.

$$\begin{array}{r}
 58 \\
 \times 45 \\
 \hline
 290 \\
 + 2320 \\
 \hline
 2,610
 \end{array}
 \quad
 \begin{array}{r}
 58 \\
 \times 5 \\
 \hline
 290 \\
 \hline
 58 \\
 \times 40 \\
 \hline
 320 \\
 + 2000 \\
 \hline
 2320
 \end{array}$$

5. Solve using the multiplication algorithm.

$$\begin{array}{r}
 82 \\
 \times 55 \\
 \hline
 410 \\
 + 4100 \\
 \hline
 4,510
 \end{array}$$

6.  $53 \times 63$

$$\begin{array}{r}
 63 \\
 \times 53 \\
 \hline
 189 \\
 + 3150 \\
 \hline
 3,339
 \end{array}$$

7.  $84 \times 73$

$$\begin{array}{r}
 73 \\
 \times 84 \\
 \hline
 292 \\
 + 5840 \\
 \hline
 6,132
 \end{array}$$

