

Name: Date: 9-11-20**Multiply. Estimate to check if your answers are reasonable.**

Example

$$\begin{aligned}
 1,970 \times 20 &= (1,970 \times 2) \times 10 \\
 &= 3,940 \times 10 \\
 &= 39,400
 \end{aligned}$$

or

$$\begin{array}{r}
 1,970 \\
 \times 20 \\
 \hline
 39,400
 \end{array}$$

1,970 rounds to 2,000.

$$2,000 \times 20 = 40,000$$

The answer is reasonable.

9. $3,610 \times 60 = 216,600$

$$\begin{aligned}
 &(3,610 \times 6) \times 10 \\
 &= 21,660 \times 10 \\
 &= 216,600
 \end{aligned}$$

$$3,610 \text{ rounds to } 4,000 \quad 4,000 \times 60 = 240,000$$

10. $8,142 \times 16 = 130,272$

$$\begin{array}{r}
 8,142 \\
 \times 16 \\
 \hline
 48,852 \\
 + 81,420 \\
 \hline
 130,272
 \end{array}$$

8,142 rounds to

8,000

$$8,000 \times 20 =$$

160,000

11. $5,193 \times 35 = 181,755$

$$\begin{array}{r}
 5,193 \\
 \times 35 \\
 \hline
 25,965 \\
 + 155,790 \\
 \hline
 181,755
 \end{array}$$

5,193 rounds to 5,000
 $5,000 \times 40 = 200,000$

12. $4,563 \times 29 = 132,327$

$$\begin{array}{r}
 4,563 \\
 \times 29 \\
 \hline
 41,067 \\
 + 91,260 \\
 \hline
 132,327
 \end{array}$$

4,563 rounds to

5,000

5,000

43

$$5,000 \times 30 =$$

150,000

Multiply. Estimate to check if your answers are reasonable.

13. $85 \times 35 = 2,975$

$$\begin{array}{r} 1 \\ 85 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 425 \\ + 2,550 \\ \hline 2,975 \end{array}$$

85 rounds

$+ 90 \quad 90 \times 40 = 3,600$

14. $78 \times 21 = 1,638$

$$\begin{array}{r} 1 \\ 78 \\ \times 21 \\ \hline 78 \\ 1,560 \\ \hline 1,638 \end{array}$$

78 rounds to

80
 $80 \times 20 = 1,600$

15. $738 \times 96 = 70,848$

$$\begin{array}{r} 37 \\ 738 \\ \times 96 \\ \hline \end{array}$$

$$\begin{array}{r} 4,428 \\ + 66,420 \\ \hline 70,848 \end{array}$$

738 rounds to 700
 $700 \times 100 = 70,000$

16. $921 \times 57 =$

$$\begin{array}{r} 1 \\ 921 \\ \times 57 \\ \hline \end{array}$$

921 rounds

$+ 900$
 $900 \times 60 = 54,000$

17. $3,072 \times 82 = 251,904$

$$\begin{array}{r} 51 \\ 3,072 \\ \times 82 \\ \hline \end{array}$$

$$\begin{array}{r} 6,144 \\ + 245,760 \\ \hline 251,904 \end{array}$$

18. $7,846 \times 63 = 494,298$

$$\begin{array}{r} 528 \\ 7,846 \\ \times 63 \\ \hline \end{array}$$

7,846 rounds to
8,000

$$\begin{array}{r} 23,538 \\ + 470,760 \\ \hline 494,298 \end{array}$$

$8,000 \times 60 = 480,000$

$3,072 \text{ rounds to } 3,000 \quad 3,000 \times 80 = 240,000$