Name: [illegible] Date: 9-11-20

Multiply. Estimate to check if your answers are reasonable.

Example

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

or

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

1,970 rounds to 2,000.
2,000 × 20 = 40,000
The answer is reasonable.

9. 3,610 × 60 = 216,600

(3,610 × 6) × 10
= 21,660 × 10
= 216,600

3,610 rounds to 4,000 4,000 × 60 = 240,000

10. 8,142 × 16 = 130,272

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

8,142 rounds to 8,000
8,000 × 20 = 160,000

11. 5,193 × 35 = 25,965

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

5,193 rounds to 5,000
5,000 × 40 = 200,000

12. 4,563 × 29 = 132,327

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

4,563 rounds to 5,000
5,000 × 30 = 150,000

Multiply. Estimate to check if your answers are reasonable.

13. 85 × 35 = 2,975

1
85
× 35
425
+ 2,550
2,975

85 rounds to 90
90 × 40 = 3,600

14. 78 × 21 = 1,638

1
78
× 21
78
1,560
1,638

78 rounds to 80
80 × 20 = 1,600

15. 738 × 96 = 70,848

738
× 96
4,428
+ 66,420
70,848

738 rounds to 700
700 × 100 = 70,000

16. 921 × 57 =

1
921
× 57
6,447
+ 46,050
52,497

921 rounds to 900
900 × 60 = 54,000

17. 3,072 × 82 = 251,904

51
3,072
× 82
6,144
+ 245,760
251,904

3,072 rounds to 3,000
3,000 × 80 = 240,000

18. 7,846 × 63 = 494,298

5
7,846
× 63
23,538
+ 470,760
494,298

7,846 rounds to 8,000
8,000 × 60 = 480,000