

Name _____

Copy and complete each exercise on a separate sheet of paper.

Estimate each product.

Then tell whether the actual product *is greater than* or *is less than* the estimated product.

1.
$$\begin{array}{r} 277 \\ \times 38 \\ \hline \end{array}$$

2.
$$\begin{array}{r} \$44.14 \\ \times 213 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 0.239 \\ \times 24.16 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 28.344 \\ \times 0.76 \\ \hline \end{array}$$

Use rounding to estimate. Then multiply.

5.
$$\begin{array}{r} 18,091 \\ \times 4 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 6191 \\ \times 72 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 468 \\ \times 943 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 303 \\ \times 635 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 3.773 \\ \times 85 \\ \hline \end{array}$$

10.
$$\begin{array}{r} \$10.42 \\ \times 39 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 6.3 \\ \times 0.04 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 2.79 \\ \times 0.5 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 0.007 \\ \times 8 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 0.64 \\ \times 0.8 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 9.4 \\ \times 0.06 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 0.05 \\ \times 4.3 \\ \hline \end{array}$$

Write each power of ten in standard form.

17. 10^8

18. 10^4

19. $10 \times 10 \times 10$

20. 1

Write as a power of ten.

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Write in expanded form in two ways.

1. 302,947

2. 16,040,007

3. 305.9

4. 18.357

Compare. Write $<$, $=$, or $>$.

5. 5.063 ? 5.634

6. 4.762 ? 14.76

7. 3.9 ? 3.138

8. 1 ? 0.999

Round each number to the place of the underlined digit.

9. 363,187,676

10. 203,763,498

11. 385.927

12. \$877.14

Estimate by both rounding and front-end estimation.

Between what two numbers will the exact sum or difference be?

13.
$$\begin{array}{r} 0.854 \\ + 0.9 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 7.631 \\ + 6.029 \\ \hline \end{array}$$

15. $4.57 + 9.004 + 3.134$

16.
$$\begin{array}{r} 0.503 \\ - 0.126 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 0.8 \\ - 0.45 \\ \hline \end{array}$$

18. $25.0753 - 5.72$

Add or subtract.

19. $23.664 + 7.891 + 6.047$

20. $50 - 0.448$

21. $\$31.13 + \$6.77 + \$0.75$

Evaluate each expression.

22. $w + 20$, when $w = 30$

23. $t - 85$, when $t = 97$