

Multiplication

Estimating

Main Idea: Estimating is a valuable life tool. It provides quick numbers when an exact number is not required. Estimates are useful in planning and predicting outcomes.

Example A Round to the whole number.

$$\begin{array}{r} 4.75 \approx 5 \\ \times 0.80 \approx \times 1 \\ \hline \approx 5 \end{array}$$

Example B Round to the largest place value.

$$\begin{array}{r} 68 \approx 70 \\ \times 23 \approx \times 20 \\ \hline \approx 1,400 \end{array}$$

Keep it Simple

Unless told otherwise, round to the largest place value and then solve.

Directions: Round to the largest place value and multiply. Show work. Lightly shade the box if the answer is over 10,000 and follow the path.



Why is it illegal to lock your car in Churchill, Canada?

Start

1. $\begin{array}{r} 871 \approx 900 \\ \times 38 \approx \times 40 \\ \hline \end{array}$ <p>Psst... Here's a secret. What's 9x4? How many zeros? Therefore: 36 + 000 = 36,000</p>	2. $\begin{array}{r} 317 \approx \\ \times 49 \approx \end{array}$	3. $\begin{array}{r} 841 \approx \\ \times 65 \approx \end{array}$	4. $\begin{array}{r} 949 \approx \\ \times 54 \approx \end{array}$
5. $\begin{array}{r} 650 \approx \\ \times 4.9 \approx \end{array}$	6. $334 \times 777 \approx$	7. $\begin{array}{r} 9.9 \approx \\ \times 8.3 \approx \end{array}$	8. $809 \times 1,500 \approx$
9. $4,180 \times 6,499 \approx$	10. $\begin{array}{r} 290 \approx \\ \times 56 \approx \end{array}$	11. $3.39 \times 76 \approx$	12. $\begin{array}{r} 94.249 \approx \\ \times 5.704 \approx \end{array}$
13. $\begin{array}{r} 79 \approx \\ \times 64 \approx \end{array}$	14. $581 \times 239 \approx$	15. $\begin{array}{r} 743 \approx \\ \times 35 \approx \end{array}$	16. $\begin{array}{r} 555 \approx \\ \times 55 \approx \end{array}$
17. $31 \times 26 \approx$	18. $\begin{array}{r} 9.90 \approx \\ \times 64 \approx \end{array}$	19. $833 \times 412 \approx$	20. $\begin{array}{r} 17 \approx \\ \times 68 \approx \end{array}$

There are no locksmiths

People do not use keys

To escape polar bears

All cars are free to use

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Example A Round to the whole number.

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Example B Round to the largest place value.

$$\begin{array}{r} 68 \approx 70 \\ \times 23 \approx \times 20 \\ \hline \approx 1,400 \end{array}$$

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Start

<p>1.</p> $\begin{array}{r} 871 \approx 900 \\ \times 38 \approx \times 40 \\ \hline 36,000 \end{array}$ <p>Psst... Here's a secret. What's 9x4? How many zeros? Therefore: 36 + 000 = 36,000</p>	<p>2.</p> $\begin{array}{r} 317 \approx 300 \\ \times 49 \approx \times 50 \\ \hline 15,000 \end{array}$	<p>3.</p> $\begin{array}{r} 841 \approx 800 \\ \times 65 \approx \times 70 \\ \hline 56,000 \end{array}$	<p>4.</p> $\begin{array}{r} 949 \approx 900 \\ \times 54 \approx \times 60 \\ \hline 45,000 \end{array}$
<p>5.</p> $\begin{array}{r} 650 \approx 600 \\ \times 4.9 \approx \times 5 \\ \hline 3,500 \end{array}$	<p>6.</p> $334 \times 777 \approx 240,000$	<p>7.</p> $\begin{array}{r} 9.9 \approx 10 \\ \times 8.3 \approx \times 8 \\ \hline 80 \end{array}$	<p>8.</p> $809 \times 1,500 \approx 1,600,000$
<p>9.</p> $4,180 \times 6,499 \approx 24,000,000$	<p>10.</p> $\begin{array}{r} 290 \approx 300 \\ \times 56 \approx \times 60 \\ \hline 18,000 \end{array}$	<p>11.</p> $3.39 \times 76 \approx 240$	<p>12.</p> $\begin{array}{r} 94.249 \approx 90 \\ \times 5.704 \approx \times 6 \\ \hline 540 \end{array}$
<p>13.</p> $\begin{array}{r} 79 \approx 80 \\ \times 64 \approx \times 60 \\ \hline 4,800 \end{array}$	<p>14.</p> $581 \times 239 \approx 120,000$	<p>15.</p> $\begin{array}{r} 743 \approx 700 \\ \times 35 \approx \times 40 \\ \hline 28,000 \end{array}$	<p>16.</p> $\begin{array}{r} 555 \approx 600 \\ \times 55 \approx \times 60 \\ \hline 36,000 \end{array}$
<p>17.</p> $31 \times 26 \approx 900$	<p>18.</p> $\begin{array}{r} 9.90 \approx 10 \\ \times 64 \approx \times 60 \\ \hline 600 \end{array}$	<p>19.</p> $833 \times 412 \approx 320,000$	<p>20.</p> $\begin{array}{r} 17 \approx 20 \\ \times 68 \approx \times 70 \\ \hline 1,400 \end{array}$

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