

Name: _____

Date: _____

Front-End Estimation

Estimate the sum or difference by using front-end estimation.

1.

$$\begin{array}{r} 18 \\ +16 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

2.

$$\begin{array}{r} 638 \\ - 367 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

3.

$$\begin{array}{r} 76 \\ - 49 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

4.

$$\begin{array}{r} 289 \\ +336 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

5.

$$\begin{array}{r} 379 \\ +234 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

6.

$$\begin{array}{r} 86 \\ - 27 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

7.

$$\begin{array}{r} 365 \\ -179 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

8.

$$\begin{array}{r} 676 \\ - 188 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

9.

$$\begin{array}{r} 87 \\ - 43 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

10.

$$\begin{array}{r} 487 \\ +247 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

11.

$$\begin{array}{r} 578 \\ +238 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

12.

$$\begin{array}{r} 77 \\ - 44 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

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Front-End Estimation

Estimate the sum or difference by using front-end estimation.

1.

$$\begin{array}{r} 18 \\ +16 \\ \hline \end{array} \rightarrow \begin{array}{r} 20 \\ +20 \\ \hline 40 \end{array}$$

2.

$$\begin{array}{r} 638 \\ - 367 \\ \hline \end{array} \rightarrow \begin{array}{r} 600 \\ - 400 \\ \hline 200 \end{array}$$

3.

$$\begin{array}{r} 76 \\ - 49 \\ \hline \end{array} \rightarrow \begin{array}{r} 80 \\ - 50 \\ \hline 30 \end{array}$$

4.

$$\begin{array}{r} 289 \\ +336 \\ \hline \end{array} \rightarrow \begin{array}{r} 300 \\ +300 \\ \hline 600 \end{array}$$

5.

$$\begin{array}{r} 379 \\ +234 \\ \hline \end{array} \rightarrow \begin{array}{r} 400 \\ +200 \\ \hline 600 \end{array}$$

6.

$$\begin{array}{r} 86 \\ - 27 \\ \hline \end{array} \rightarrow \begin{array}{r} 90 \\ - 30 \\ \hline 60 \end{array}$$

7.

$$\begin{array}{r} 365 \\ -179 \\ \hline \end{array} \rightarrow \begin{array}{r} 400 \\ +200 \\ \hline 600 \end{array}$$

8.

$$\begin{array}{r} 676 \\ - 188 \\ \hline \end{array} \rightarrow \begin{array}{r} 700 \\ - 200 \\ \hline 500 \end{array}$$

9.

$$\begin{array}{r} 87 \\ - 43 \\ \hline \end{array} \rightarrow \begin{array}{r} 90 \\ - 40 \\ \hline 50 \end{array}$$

10.

$$\begin{array}{r} 487 \\ +247 \\ \hline \end{array} \rightarrow \begin{array}{r} 500 \\ +300 \\ \hline 800 \end{array}$$

11.

$$\begin{array}{r} 578 \\ +238 \\ \hline \end{array} \rightarrow \begin{array}{r} 600 \\ +200 \\ \hline 800 \end{array}$$

12.

$$\begin{array}{r} 77 \\ - 44 \\ \hline \end{array} \rightarrow \begin{array}{r} 80 \\ - 40 \\ \hline 40 \end{array}$$