

Name: _____

Date: _____

Front-End Estimation

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

1.

$$\begin{array}{r} 78 \\ -54 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

2.

$$\begin{array}{r} 63 \\ +22 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

3.

$$\begin{array}{r} 93 \\ -11 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

4.

$$\begin{array}{r} 668 \\ +236 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

5.

$$\begin{array}{r} 423 \\ +277 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

6.

$$\begin{array}{r} 63 \\ -46 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

7.

$$\begin{array}{r} 575 \\ -285 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

8.

$$\begin{array}{r} 29 \\ +42 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

9.

$$\begin{array}{r} 781 \\ -247 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

10.

$$\begin{array}{r} 444 \\ +278 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

11.

$$\begin{array}{r} 36 \\ +26 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} + \\ \hline \end{array}$$

12.

$$\begin{array}{r} 63 \\ -17 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad \begin{array}{l} - \\ \hline \end{array}$$

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Front-End Estimation

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

1.

$$\begin{array}{r} 78 \\ -54 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 80 \\ -50 \\ \hline 30 \end{array}$$

2.

$$\begin{array}{r} 63 \\ +22 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 60 \\ +20 \\ \hline 80 \end{array}$$

3.

$$\begin{array}{r} 93 \\ -11 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 90 \\ -10 \\ \hline 80 \end{array}$$

4.

$$\begin{array}{r} 668 \\ +236 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 700 \\ +200 \\ \hline 900 \end{array}$$

5.

$$\begin{array}{r} 423 \\ +277 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 400 \\ +300 \\ \hline 700 \end{array}$$

6.

$$\begin{array}{r} 63 \\ -46 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 60 \\ -50 \\ \hline 10 \end{array}$$

7.

$$\begin{array}{r} 575 \\ -285 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 600 \\ -300 \\ \hline 300 \end{array}$$

8.

$$\begin{array}{r} 29 \\ +42 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 30 \\ +40 \\ \hline 70 \end{array}$$

9.

$$\begin{array}{r} 781 \\ -247 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 800 \\ -200 \\ \hline 600 \end{array}$$

10.

$$\begin{array}{r} 444 \\ +278 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 400 \\ +300 \\ \hline 700 \end{array}$$

11.

$$\begin{array}{r} 36 \\ +26 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 40 \\ +30 \\ \hline 70 \end{array}$$

12.

$$\begin{array}{r} 63 \\ -17 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 60 \\ -20 \\ \hline 40 \end{array}$$