

Name: _____

Date: _____

Front-End Estimation

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

1.

$$\begin{array}{r} 22 \\ +13 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad + \quad \underline{\hspace{1cm}}$$

2.

$$\begin{array}{r} 51 \\ -26 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad - \quad \underline{\hspace{1cm}}$$

3.

$$\begin{array}{r} 27 \\ -14 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad - \quad \underline{\hspace{1cm}}$$

4.

$$\begin{array}{r} 357 \\ +265 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad + \quad \underline{\hspace{1cm}}$$

5.

$$\begin{array}{r} 567 \\ +228 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad + \quad \underline{\hspace{1cm}}$$

6.

$$\begin{array}{r} 43 \\ -19 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad - \quad \underline{\hspace{1cm}}$$

7.

$$\begin{array}{r} 369 \\ -234 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad - \quad \underline{\hspace{1cm}}$$

8.

$$\begin{array}{r} 46 \\ +28 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad + \quad \underline{\hspace{1cm}}$$

9.

$$\begin{array}{r} 468 \\ -378 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad - \quad \underline{\hspace{1cm}}$$

10.

$$\begin{array}{r} 169 \\ +678 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad + \quad \underline{\hspace{1cm}}$$

11.

$$\begin{array}{r} 19 \\ +24 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad + \quad \underline{\hspace{1cm}}$$

12.

$$\begin{array}{r} 632 \\ -176 \\ \hline \end{array} \quad \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \quad - \quad \underline{\hspace{1cm}}$$

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Front-End Estimation

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

1.

$$\begin{array}{r} 22 \\ +13 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 20 \\ +10 \\ \hline 30 \end{array}$$

2.

$$\begin{array}{r} 51 \\ -26 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 50 \\ -30 \\ \hline 20 \end{array}$$

3.

$$\begin{array}{r} 27 \\ -14 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 30 \\ -10 \\ \hline 20 \end{array}$$

4.

$$\begin{array}{r} 357 \\ +265 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 400 \\ +300 \\ \hline 700 \end{array}$$

5.

$$\begin{array}{r} 567 \\ +228 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 600 \\ +200 \\ \hline 800 \end{array}$$

6.

$$\begin{array}{r} 43 \\ -19 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 40 \\ -20 \\ \hline 20 \end{array}$$

7.

$$\begin{array}{r} 369 \\ -234 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 400 \\ -200 \\ \hline 200 \end{array}$$

8.

$$\begin{array}{r} 46 \\ +28 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 50 \\ +30 \\ \hline 80 \end{array}$$

9.

$$\begin{array}{r} 468 \\ -378 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 500 \\ -400 \\ \hline 100 \end{array}$$

10.

$$\begin{array}{r} 169 \\ +678 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 200 \\ +700 \\ \hline 900 \end{array}$$

11.

$$\begin{array}{r} 19 \\ +24 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 20 \\ +20 \\ \hline 40 \end{array}$$

12.

$$\begin{array}{r} 632 \\ -176 \\ \hline \end{array} \begin{array}{l} \rightarrow \\ \rightarrow \end{array} \begin{array}{r} 600 \\ -200 \\ \hline 400 \end{array}$$