

Estimating Decimal Sums and Differences

When we estimate sums and differences, we are just rounding each number and then performing the indicated operation. The word "about" is our key for when to estimate and not find an exact number.

0, 0.25, 0.5, 0.75, 1

Example:

a. Estimate $0.43 + 0.94$

$$\begin{array}{r} \sim \quad \sim \\ 0.50 + 1 \\ \hline 1.50 \end{array}$$

b. Estimate $68.69 - 7.43$

$$\begin{array}{r} 68.75 - 7.50 \\ \hline 61.25 \end{array}$$

You Try:

1. $0.621 + 0.185$

$$\begin{array}{r} 0.50 + 0.25 \\ \hline 0.75 \end{array}$$

2. $0.80 - 0.7383$

$$\begin{array}{r} 0.75 - 0.75 \\ \hline \text{close to } 0 \end{array}$$

3. $5.34 + 6.33 + 1.90$

$$\begin{array}{r} 5.25 + 6.25 + 2 \\ \hline 13.5 \end{array}$$

4. $67.02 - 56.94$

$$\begin{array}{r} 67 - 57 \\ \hline 10 \end{array}$$

5. The largest cut diamond is the 545.67 carat gem known as the Golden Jubilee. Before it was cut, it weighed 775.50 carats.

About how many carats of the uncut diamond were not used?

↳ Estimate

$$775.50 - 545.75$$

$$775 - 550$$

$$\underline{225 \text{ carats}}$$

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