

Math Practice Sheets

Decimal Arithmetic

Student Name

Examples

Practice Questions

Extra Challenge Unit



Example

To estimate the sums or differences of decimals, first round to the nearest whole number, then use mental math to find the sum or difference of the estimates.

Paul has to finish his work in 12.75 minutes but he finished his work in 16.94 minutes. About how much late was Paul?

Use rounding to quick estimate.
Round to nearest whole number.

$$\begin{array}{r} 16.94 \longrightarrow 17 \\ - 12.75 \longrightarrow - 13 \\ \hline 4 \end{array}$$

The difference of time is about 4 minutes.

Use front-end-digits to make a front-end estimate, and then calculate.

$$\begin{array}{r} 16.94 \longrightarrow 16 \\ - 12.75 \longrightarrow - 12 \\ \hline 4 \end{array}$$

Since $0.94 > 0.75$, the difference is greater than 4.

\therefore Paul is more than 4 minutes late in his work.

Exercise

1. Round to the nearest tenth in estimating each of the following expressions.

a) $1.234 + 2.123$

b) $30.34 - 14.57$

c) $104.83 - 95.33$

d) $170.44 + 10.37$