



Practice a Partial-Quotients Algorithm

Let's practice using a partial-quotients algorithm.

Warm-up

Which Three Go Together: Different Ways

Which 3 go together?

A

$$\begin{array}{r} \boxed{16} \\ 82 \overline{)1,312} \end{array}$$

B

$$\begin{array}{r} \boxed{16} \\ 1 \\ 5 \\ 5 \\ 5 \\ 82 \overline{)1,312} \end{array}$$

C

$$\begin{array}{r} 1 \\ 5 \\ 10 \\ 82 \overline{)1,312} \end{array}$$

D

$$\begin{array}{r} \boxed{16} \\ 10 \\ 5 \\ 1 \\ 82 \overline{)1,312} \end{array}$$



Activity 1

Find the Mistake

Describe the error(s) in each problem. Then find the correct whole-number quotient.

1.

$$\begin{array}{r} \boxed{29} \\ 4 \\ 5 \\ 20 \\ 46 \overline{)1,656} \\ -920 \\ \hline 436 \\ -230 \\ \hline 206 \\ -184 \\ \hline 22 \end{array}$$

2.

$$\begin{array}{r} \boxed{64} \\ 4 \\ 60 \\ 18 \overline{)972} \\ -900 \\ \hline 72 \\ -72 \\ \hline 0 \end{array}$$



3.

$$\begin{array}{r} \boxed{211} \\ 1 \\ 10 \\ 200 \\ 24 \overline{)744} \\ -480 \\ \hline 264 \\ -240 \\ \hline 24 \end{array}$$



Activity 2

Practice Problems

Find the value of each expression. Then have a partner review your work.

1.

$$16 \overline{)768}$$

2.

$$29 \overline{)1,319}$$

3.

$$21 \overline{)8,721}$$

4.

$$53 \overline{)6,572}$$

