



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.

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

2.

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



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.

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

