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

$$82 \overline{)1{,}312} \quad \boxed{16}$$

B

$$\boxed{16} \\ 1 \\ 5 \\ 5 \\ 5 \\ 82 \overline{)1{,}312}$$

C

$$1 \\ 5 \\ 10 \\ 82 \overline{)1{,}312}$$

D

$$\boxed{16} \\ 10 \\ 5 \\ 1 \\ 82 \overline{)1{,}312}$$

Find the Mistake

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

1.

```
            29
             4
             5
            20
      46 ) 1,656
          −920
           436
          −230
           206
          −184
            22
```

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_____

2.

```
           64
            4
           60
      18 ) 972
          −900
            72
          − 72
             0
```

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3.

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

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.

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