1-Digit Quotients

Find 436 ÷ 53.

To find the answer, first estimate the quotient.

Think: 400 ÷ 50 = 8   or   450 ÷ 50 = 9

Try 9:

$$\begin{array}{r} 9 \\ 53\overline{)436} \\ -477 \end{array}$$

Write 9 in the ones place.
Multiply, 9 × 53 = 477.
477 > 436.
This estimate is too high.

Try 8:

$$\begin{array}{r} 8 \\ 53\overline{)436} \\ -424 \\ \hline 12 \end{array}$$

Write 8 in the ones place.
Multiply, 8 × 53 = 424.
Subtract, 436 − 424 = 12.
Compare, 12 < 53. Write the remainder in the quotient.

436 ÷ 53 = 8 R12
Check:
8 × 53 = 424
424 + 12 = 436

Complete.

1. $32\overline{)245}$ (7 R ___)

2. $64\overline{)332}$ (___ R12)

3. $51\overline{)489}$ (___ R ___)

Divide. Check by multiplying.

4. $49\overline{)216}$

5. $79\overline{)698}$

6. $25\overline{)194}$

7. Explain how you know the answer to the problem below has an error.

$$\begin{array}{r} 2\ R86 \\ 77\overline{)240} \\ -154 \\ \hline 86 \end{array}$$

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