

Zeros in the Quotient

Find $956 \div 9$.First estimate: $900 \div 9 = 100$.

| Step 1 | Step 2 | Step 3 | Check |
|---|---|---|---|
| Divide the hundreds. $\begin{array}{r} 1 \\ 9 \overline{)956} \\ \underline{-9} \\ 0 \end{array}$ Multiply. Compare. $0 < 9$ | Bring down the tens and divide. $\begin{array}{r} 10 \\ 9 \overline{)956} \\ \underline{-9} \\ 05 \end{array}$ Multiply. Subtract. Compare. $5 < 9$ 5 can't be divided by 9. Place a zero in the quotient. | Bring down the ones and divide. $\begin{array}{r} 106 \text{ R}2 \\ 9 \overline{)956} \\ \underline{-9} \\ 05 \\ \underline{-0} \\ 56 \end{array}$ Multiply. Subtract. Compare. $2 < 9$ | Multiply the quotient by the divisor and add the remainder. $\begin{array}{r} 5 \\ 106 \quad 954 \\ \times 9 \quad + 2 \\ \hline 954 \quad 956 \end{array}$ The answer checks. |

Divide. Then, check your answers.

1. $7 \overline{)742}$

2. $5 \overline{)520}$

3. $2 \overline{)813}$

4. $4 \overline{)808}$

5. **Number Sense** Could $540 \div 3$ be 18? Why or why not?
