# Estimating and Dividing with Greater Numbers

Find $8,037 \div 77$.

You can use a calculator to divide large numbers.

**Step 1:** Estimate. Round the divisor and the dividend.
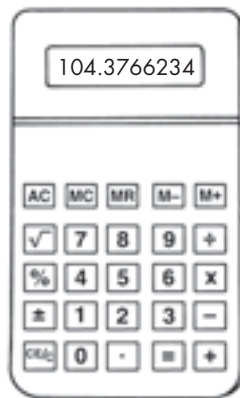
$8,037 \div 77 \longrightarrow$
$8,000 \div 80 = 100$

The quotient should be close to 100.

**Step 2:** Now, use a calculator to find the quotient.

$8,037 \div 77$

| 104.3766234 |

| AC | MC | MR | M– | M+ |
| $\sqrt{}$ | 7 | 8 | 9 | ÷ |
| % | 4 | 5 | 6 | × |
| ± | 1 | 2 | 3 | – |
| C/C | 0 | · | = | + |

**Step 3:** Round the quotient to the required place. Remember, if the digit is 5 or more, add 1 to the rounding digit. If the digit is less than 5, leave the rounding digit alone.

Round the quotient to the nearest hundredth. 104.3766234 rounded to the nearest hundredth is 104.38. This is close to the original estimate, so the answer is reasonable.

Estimate first. Then use a calculator to find the quotient. Round to the nearest hundredth if necessary.

**1.** $78\overline{)3,796}$

**2.** $51\overline{)2,588}$

**3.** $38\overline{)3,914}$

**4.** $37\overline{)7,492}$

**5.** $46\overline{)6,725}$

**6.** $62\overline{)9,911}$

**7.** Is $5,309 \div 26$ less than 20, greater than 20 but less than 200, or greater than 200?

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