

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Divide. Then, check using multiplication. The first one is done for you.

a.  $487 \div 21$

$$\begin{array}{r}
 21 \overline{) 487} \\
 \underline{42} \phantom{0} \\
 67 \\
 \underline{63} \\
 4
 \end{array}$$

Check:

$21 \times 23 = 483$

$483 + 4 = 487$

b.  $485 \div 15$

Think  $15 \times 3 = 45$  ←

$$\begin{array}{r}
 32 \text{ R. } 5 \\
 15 \overline{) 485} \\
 \underline{45} \phantom{0} \\
 35 \\
 \underline{30} \\
 5
 \end{array}$$

$$\begin{array}{r}
 15 \\
 \times 32 \\
 \hline
 30 \\
 + 450 \\
 \hline
 480
 \end{array}$$

$$\begin{array}{r}
 480 \\
 + 5 \\
 \hline
 485
 \end{array}$$

c.  $700 \div 21$

d.  $399 \div 31$

Think  $30 \times 3 = 90$   
too much, so  
 $30 \times 2 = 60$  ←

$$\begin{array}{r}
 12 \text{ R. } 27 \\
 31 \overline{) 399} \\
 \underline{31} \phantom{0} \\
 89 \\
 \underline{62} \\
 27
 \end{array}$$

$$\begin{array}{r}
 31 \\
 \times 12 \\
 \hline
 62 \\
 + 310 \\
 \hline
 372
 \end{array}$$

$$\begin{array}{r}
 372 \\
 + 27 \\
 \hline
 399
 \end{array}$$

e.  $820 \div 42$

f.  $908 \div 56$

2. When dividing 878 by 31, a student finds a quotient of 28 with a remainder of 11. Check the student's work, and use the check to find the error in the solution.

Think  
 $30 \times 2 = 60$   
 $30 \times 8 = 240$

$$\begin{array}{r} 28 \text{ R } 10 \\ 31 \overline{) 878} \\ \underline{-62} \phantom{0} \\ 258 \\ \underline{-248} \\ 10 \end{array}$$

check:

$$\begin{array}{r} 31 \\ \times 28 \\ \hline 248 \\ + 620 \\ \hline 868 \end{array}$$

$$\begin{array}{r} 868 \\ + 10 \\ \hline 878 \end{array}$$

It should be a quotient of 28 R-10, so the student did some subtracting wrong & got 1 more remainder.

3. A baker was going to arrange 432 desserts into rows of 28. The baker divides 432 by 28 and gets a quotient of 15 with remainder 12. Explain what the quotient and remainder represent.

The quotient represents the number of desserts in each row. The remainder represents the extra desserts after all 28 rows of 15 desserts.

