

Name _____ Date _____

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

a. $487 \div 21$

$$\begin{array}{r} 23 \text{ R } 4 \\ 21 \overline{)487} \\ -42 \\ \hline 67 \\ -63 \\ \hline 4 \end{array}$$

Check:

$21 \times 23 = 483$

$483 + 4 = 487$

b. $485 \div 15$

Think $15 \times 3 = 45$

$$\begin{array}{r} 32 \text{ R } 5 \\ 15 \overline{)485} \\ -45 \\ \hline 35 \\ -30 \\ \hline 5 \end{array}$$

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

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

c. $700 \div 21$

d. $399 \div 31$

Think
 $30 \times 3 = 90$
 $30 \times 2 = 60$
 $30 \times 1 = 30$
too much, so

$$\begin{array}{r} 12 \text{ R } 27 \\ 31 \overline{)399} \\ -31 \\ \hline 89 \\ -62 \\ \hline 27 \end{array}$$

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

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

31 28 R 10

$$\begin{array}{r}
 878 \\
 -62 \\
 \hline
 258 \\
 -248 \\
 \hline
 10
 \end{array}$$

check: 31

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

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

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.

