

Name Jack

Date _____

Divide. Check your solutions by multiplying.

1. $204 \div 4$

hundreds	tens	ones
..		

5 tens = 51
1 one = 51

$$\begin{array}{r} 51 \\ \times 4 \\ \hline 204 \end{array}$$

2. $704 \div 3$

$$\begin{array}{r} 234 \text{ R}2 \\ 3 \overline{)704} \\ \underline{-6} \\ 10 \\ \underline{-9} \\ 14 \\ \underline{-12} \\ 2 \end{array}$$

$$\begin{array}{r} 234 \\ \times 3 \\ \hline 702 \end{array} + \frac{2}{704} \checkmark$$

Q = 234
R = 2

3. $627 \div 3$

$$\begin{array}{r} 209 \\ 3 \overline{)627} \\ \underline{-6} \\ 02 \\ \underline{-0} \\ 27 \\ \underline{-27} \\ 0 \end{array}$$

$$\begin{array}{r} 209 \\ \times 3 \\ \hline 627 \end{array}$$

4. $407 \div 2$

hundreds	tens	ones
..		...
..		...

2 hundreds = 203
3 ones = 203

$$\begin{array}{r} 203 \\ \times 2 \\ \hline 406 \end{array} + \frac{1}{407} \checkmark$$

Q = 203
R = 1

5. $760 \div 4$

$$\begin{array}{r} 190 \\ 4 \overline{)760} \\ \underline{-4} \\ 36 \\ \underline{-36} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

$$\begin{array}{r} 190 \\ \times 4 \\ \hline 760 \end{array}$$

6. $5,120 \div 4$

$$\begin{array}{r} 1280 \\ 4 \overline{)5120} \\ \underline{-4} \\ 11 \\ \underline{-8} \\ 32 \\ \underline{-32} \\ 00 \\ \underline{-0} \\ 0 \end{array}$$

$$\begin{array}{r} 1280 \\ \times 4 \\ \hline 5,120 \end{array}$$



COMMON CORE

Lesson 30:

Date:

Solve division problems with a zero in the dividend or with a zero in the quotient.
8/26/13

engage^{ny}

3.G.5.6



7. $3,070 \div 5$

$$\begin{array}{r} 614 \\ 5 \overline{) 3070} \\ \underline{-30} \\ 07 \\ \underline{-5} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

$$\begin{array}{r} 614 \\ \times 5 \\ \hline 3070 \checkmark \end{array}$$

8. $6,706 \div 5$

$$\begin{array}{r} 1341 \text{ R1} \\ 5 \overline{) 6706} \\ \underline{-5} \\ 17 \\ \underline{-15} \\ 20 \\ \underline{-20} \\ 06 \\ \underline{-5} \\ 1 \end{array}$$

$$\begin{array}{r} 1341 \\ \times 5 \\ \hline 6705 \end{array} + \begin{array}{r} 6705 \\ + 1 \\ \hline 6706 \checkmark \end{array}$$

Q = 1,341
R = 1

9. $8,313 \div 4$

$$\begin{array}{r} 2078 \text{ R1} \\ 4 \overline{) 8313} \\ \underline{-8} \\ 03 \\ \underline{-0} \\ 31 \\ \underline{-28} \\ 33 \\ \underline{-32} \\ 1 \end{array}$$

$$\begin{array}{r} 2078 \\ \times 4 \\ \hline 8312 \end{array} + \begin{array}{r} 8312 \\ + 1 \\ \hline 8313 \checkmark \end{array}$$

Q = 2,078
R = 1

10. $9,008 \div 3$

$$\begin{array}{r} 3002 \text{ R2} \\ 3 \overline{) 9008} \\ \underline{-9} \\ 00 \\ \underline{-0} \\ 08 \\ \underline{-6} \\ 2 \end{array}$$

$$\begin{array}{r} 3002 \\ \times 3 \\ \hline 9,006 \end{array} + \begin{array}{r} 9,006 \\ + 2 \\ \hline 9,008 \checkmark \end{array}$$

Q = 3,002
R = 2

11.

a. Find the quotient and remainder for $3,131 \div 3$.

$$\begin{array}{r} 1043 \text{ R2} \\ 3 \overline{) 3131} \\ \underline{-3} \\ 01 \\ \underline{-0} \\ 13 \\ \underline{-12} \\ 11 \\ \underline{-9} \\ 2 \end{array}$$

$$\begin{array}{r} 1043 \\ \times 3 \\ \hline 3,129 \end{array} + \begin{array}{r} 3,129 \\ + 2 \\ \hline 3,131 \checkmark \end{array}$$

Q = 1,043
R = 2

b. How could you change the digit in the ones place of the whole so that there would be no remainder?

Explain how you determined your answer. If I changed the digit in the ones place to a 2, there would be no remainder because the last step would be $12 \div 3$ which has no remainder because $12 \div 3 = 4$. I could also change it to a 5 or 8 because $15 \div 3 = 5$ and $18 \div 3 = 6$.

