

**Warm-Up:** Are the vertical numbers divisible by the horizontal numbers  
Mark check for yes, x for no.

$$\begin{array}{l} \underbrace{3+2+4+7+2} \\ 5 + 11 + 2 \\ 16 + 2 = 18 \end{array}$$

	2	3	5	10
35	<u>x</u>	<u>X</u>	<u>✓</u>	<u>x</u>
96	<u>✓</u>	<u>✓</u>	<u>x</u>	<u>x</u>
897	<u>x</u>	<u>✓</u>	<u>x</u>	<u>x</u>
500	<u>✓</u>	<u>x</u>	<u>✓</u>	<u>✓</u>
8302	<u>✓</u>	<u>x</u>	<u>x</u>	<u>x</u>
32,472	<u>✓</u>	<u>✓</u>	<u>x</u>	<u>x</u>

$\frac{17}{29}$

### 1.6 Long Division

• Divide 3066 by 42

40      42

$$\frac{12}{4}$$

$$\frac{30}{4} = 7$$

$$\begin{array}{r} 73 \\ 42 \overline{) 3066} \\ \underline{-294} \phantom{0} \\ 126 \\ \underline{-126} \\ 0 \end{array}$$

$$\begin{array}{r} 42 \\ \times 7 \\ \hline 294 \end{array}$$

$$\begin{array}{r} 42 \\ \times 3 \\ \hline 126 \end{array}$$

• Divide 2730 by 58

60      47 R 4

$$\frac{27}{6} = 4$$

$$\frac{41}{6} = 6$$

$$\begin{array}{r} 47 \text{ R } 4 \\ 58 \overline{) 2730} \\ \underline{-232} \phantom{0} \\ 410 \\ \underline{-406} \\ 4 \end{array}$$

$$\begin{array}{r} 3 \\ 58 \\ \times 4 \\ \hline 232 \end{array}$$

$$\begin{array}{r} 4 \\ 58 \\ \times 6 \\ \hline 348 \\ + 58 \\ \hline \rightarrow 406 \end{array}$$

•  $42 \overline{) 8734} \text{ R}40$

$\begin{array}{r} \times 207 \\ 42 \overline{) 8734} \\ \underline{-84} \phantom{00} \\ 334 \\ \underline{-294} \\ 40 \end{array}$

$\frac{33}{4} = 8$   
 check  
 $336$   
 (7)

$\begin{array}{r} 42 \\ \times 7 \\ \hline 294 \end{array}$

$\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \end{array}$

• Dividing with zeros (Multiples of 10)

$60 \div 10 \rightarrow$

$\frac{\cancel{60}}{\cancel{10}} \rightarrow 6 \div 1 = 6$

$7\cancel{00} \div 1\cancel{00}$

$7 \div 1$

(7)

•  $11,000 \div 40$

$\begin{array}{r} \times 275 \\ 4 \overline{) 11000} \\ \underline{-8} \phantom{000} \\ 30 \phantom{0} \\ \underline{-28} \phantom{0} \\ 20 \\ \underline{-20} \\ 0 \end{array}$

Try

$35\cancel{00} \overline{) 31,5\cancel{00}}$

$\begin{array}{r} 9 \\ 35 \overline{) 315} \end{array}$

$\begin{array}{r} 3 \\ 35 \\ \times 7 \\ \hline 245 \end{array}$

• Check the answer, fix if incorrect

$$\begin{array}{r} 114 \text{ R}3 \\ \hline 48 \overline{) 5324} \end{array}$$

$$\begin{array}{r} \times 110 \text{ R}44 \\ \hline 48 \overline{) 5324} \\ -48 \phantom{0} \downarrow \\ \hline 52 \phantom{0} \downarrow \\ 48 \phantom{0} \downarrow \\ \hline 44 \end{array}$$