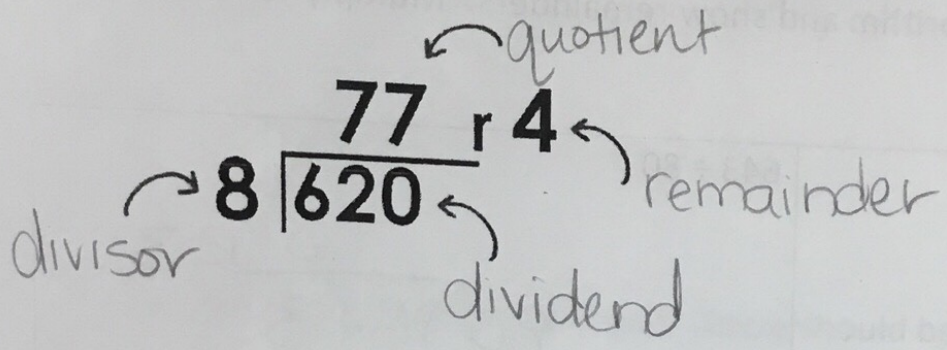


Name: _____

End of Module Study Guide- Module 2

1. Label the parts of the equation.



2. Divide.

$12,000 \div 300$ 40	$560,000 \div 700$ 800
$28,000 \div 40$ 700	$810,000 \div 9,000$ 90

3. Estimate the quotient for the following problems.

$2,659 \div 28$ $\approx \underline{2700} \div \underline{30}$ $= \underline{90}$	$2,525 \div 64$ $\approx \underline{2400} \div \underline{60}$ $= \underline{40}$
$8,515 \div 89$ $\approx \underline{8100} \div \underline{90}$ $= \underline{90}$	$4,945 \div 93$ $\approx \underline{4500} \div \underline{90}$ $= \underline{50}$

4. Why is it helpful to estimate the quotient when solving a long division problem using the standard algorithm?

- ① To check for reasonableness
- ② So you don't have to divide by multiple numbers - it's quicker

5. Divide using the standard algorithm and show remainders. Multiply to check your answers.

<p>71 ÷ 50</p> $\begin{array}{r} 1 \text{ R } 21 \\ 50 \overline{) 71} \\ \underline{-50} \\ 21 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 50 \\ \times 1 \\ \hline 50 \\ + 21 \\ \hline 71 \end{array}$ </div>	<p>643 ÷ 80</p> $\begin{array}{r} 8 \text{ R } 3 \\ 80 \overline{) 643} \\ \underline{-640} \\ 3 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 80 \\ \times 8 \\ \hline 640 \\ + 3 \\ \hline 643 \end{array}$ </div>
<p>553 ÷ 23</p> $\begin{array}{r} 24 \\ 23 \overline{) 553} \\ \underline{-46} \\ 93 \\ \underline{-92} \\ 1 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 23 \\ \times 24 \\ \hline 92 \\ 460 \\ \hline 552 \\ + 1 \\ \hline 553 \end{array}$ </div>	<p>6,144 ÷ 35</p> $\begin{array}{r} 175 \text{ R } 19 \\ 35 \overline{) 6144} \\ \underline{-35} \\ 264 \\ \underline{-245} \\ 194 \\ \underline{-175} \\ 19 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 175 \\ \times 35 \\ \hline 875 \\ 5250 \\ \hline 6125 \\ 19 \\ \hline 6144 \end{array}$ </div>

6. Divide.

a. $6.4 \div 8 = \underline{0.8}$

b. $18.6 \div 20 = \underline{0.93}$

$18.6 \div 2 \div 10$

$9.3 \div 10 = 0.93$

7. Estimate the quotients.

a. $3.24 \div 82 \approx$

$320 \div 80 = 4$ hundredths = 0.04

b. $361.2 \div 61 \approx$

$3600 \text{ tenths} \div 60 = 60 \text{ tenths} = 6$

8. Divide and multiply to check. There should be no remainders!

<p>$36.14 \div 13$</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> $\begin{array}{r} 2 \\ 13 \\ \times 7 \\ \hline 91 \end{array}$ </div> <div> $\begin{array}{r} 2.78 \\ 13 \overline{) 36.14} \\ \underline{- 26} \\ 101 \\ \underline{- 91} \\ 104 \\ \underline{- 104} \\ 0 \end{array}$ </div> </div>	<p>$6.89 \div 13$</p> $\begin{array}{r} .53 \\ 13 \overline{) 6.89} \\ \underline{65} \\ 39 \\ \underline{- 39} \\ 0 \end{array}$
<p>$30.09 \div 59$</p> $\begin{array}{r} .51 \\ 59 \overline{) 30.09} \\ \underline{295} \\ 59 \end{array}$	<p>$300.9 \div 59$</p> $\begin{array}{r} 5.1 \\ 59 \overline{) 300.9} \\ \underline{295} \\ 59 \end{array}$