

Name _____

Adjust Quotients

<p>When you divide, you can use the first digit of your estimate as the first digit of your quotient. Sometimes the first digit will be too high or too low. Then you have to adjust the quotient by increasing or decreasing the first digit.</p>			
Estimate Too High		Estimate Too Low	
<p>Divide. $271 \div 48$</p> <p>Estimate. $300 \div 50 = 6$</p>		<p>Divide. $2,462 \div 27$</p> <p>Estimate. $2,400 \div 30 = 80$</p>	
<p>Try 6 ones.</p> $\begin{array}{r} 6 \\ 48 \overline{)271} \\ - 288 \\ \hline \end{array}$ <p>You cannot subtract 288 from 271. So, the estimate is too high.</p>	<p>Try 5 ones.</p> $\begin{array}{r} 5 \text{ r}31 \\ 48 \overline{)271} \\ - 240 \\ \hline 31 \end{array}$ <p>So, $271 \div 48$ is 5 r31.</p>	<p>Try 8 tens.</p> $\begin{array}{r} 8 \\ 27 \overline{)2,462} \\ - 216 \\ \hline 30 \end{array}$ <p>30 is greater than the divisor. So, the estimate is too low.</p>	<p>Try 9 tens.</p> $\begin{array}{r} 91 \text{ r}5 \\ 27 \overline{)2,462} \\ - 243 \\ \hline 32 \\ - 27 \\ \hline 5 \end{array}$ <p>So, $2,462 \div 27$ is 91 r5.</p>

Adjust the estimated digit in the quotient, if needed. Then divide.

1. $58 \overline{)1,325}$

2. $37 \overline{)241}$

3. $29 \overline{)2,276}$

Divide.

4. $16 \overline{)845}$

5. $24 \overline{)217}$

6. $37 \overline{)4,819}$