

Name: Key  
5<sup>th</sup> Grade Notes 4.4A Adjust Quotients p. 271

Sometimes when you divide, you will end up with a product that is too big or too small, so you'll need to change the number in the quotient. (\*\*This is why it's important to compare.) If the difference is too big, the quotient needs to increase. If when you multiply, the product is bigger than the divisor, then the quotient needs to decrease.

Ex:  $144 \div 16$

$$\begin{array}{r} 4 \quad 007 \\ 16 \overline{)144} \\ \underline{-112} \\ 32 \end{array}$$

32 too big (compare)

$$\begin{array}{r} * \quad 008 \\ 16 \overline{)144} \\ \underline{-128} \\ 16 \end{array}$$

16 too big (compare)

$$\begin{array}{r} 5 \quad 009 \\ 16 \overline{)144} \\ \underline{-144} \\ 0 \end{array}$$

Round 16 to 20 and

144 to 140. Divide

$$\underline{140 \div 20 = 7}$$

Notice when you subtract,

32 is greater than

16. So you need to change

the quotient (use a larger

number; on hw just erase).

Try 8. If that doesn't

work, try another number.

Ex:  $1,252 \div 32$

$$\begin{array}{r} 004 \\ 32 \overline{) 1,252} \\ \underline{-128} \text{ too big} \end{array}$$

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$$\begin{array}{r} 0039 R4 \\ 32 \overline{) 1,252} \\ \underline{-96} \\ 2892 \\ \underline{-288} \\ 4 \end{array}$$

Round 32 to 30 and 1,252

to 1,200. Divide

$$\underline{1,200 \div 30 = 40 - \text{use } 4}$$

Notice that when you multiply,

128 is bigger than

125. You can't

subtract, so you need to

change the quotient (use a

smaller number).

Try 3. If that doesn't

work, try another number.

Use compatible numbers for

$$\underline{292 \div 32 \rightarrow 270 \div 30 = 9}$$

(always estimate less :

$$\underline{300 \text{ would be } 300 \div 30 = 10}$$

and you must have a single

digit answer)