DIVISION OF FOUR-DIGITS BY TWO-DIGITS

When the dividend and divisor are numbers with two or more digits, division becomes a step-by-step process.



1stRound the divisor up (75 rounds up to 80) and estimate the number of 80's in 208.StepThe answer is 2.

2nd 2 Step 75/2083 -150

Multiply the divisor by the quotient (2×75) if the product of those two numbers is larger than the dividend, try a smaller quotient.

Summer Math Skills Sharpener - Sixth, Seventh & Eighth

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GRADE 6, 7, & 8 HELP PAGES

3rd Step	2 75/2083 <u>-150</u> 58	Subtract and compare the remainder and the divisor If the remainder is greater than the divisor, the quotient tried is too small; try a larger quotient.
4th Step	27 75/2083 <u>-150</u> 583	Pull down the next digit from the dividend (3) and repeat the estimation and subtraction process. (How many times can 80 go into 583?) The answer is 7 times.
5th Step	$ \begin{array}{r} 27 \\ 75/2083 \\ \underline{-150} \\ 583 \\ \underline{-525} \\ 58 \end{array} $	Multiply the divisor (7 x 75), subtract the product from the dividend, and compare.

6th 75 is larger than 58, so the number left over is called the *remainder*. The *remainder* should be written as a fraction or decimal.

Example: As a fraction



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