

Fill in the missing information below. You may use a calculator.

	Number Sentence	Number Sentence Without Exponents	Quotient/ Answer	Observations (How did the placement of the decimal change?)
1	$78.5 \div 10$			
2	$78.5 \div 10^2$	<b><math>78.5 \div 100</math></b>		
3	$78.5 \div 10^3$			
4	$78.5 \div 10^4$			
5	$78.5 \div 10^5$			
6	$34.6 \div 10^2$			
7	$34.6 \div 10^3$			
8	$34.6 \div 10^4$			
9	$34.6 \div 10^5$			

Explain this to a partner: What pattern do you notice in the decimal placement for the quotient when a decimal is divided by a power of 10? Discuss and write an explanation below.

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