

Dividing by Powers of 10

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	$7.85 \div 10^2$	$7.85 \div (10 \times 10)$; $7.85 \div 100$		
3	$785 \div 10^3$			
4	$23.4 \div 10^4$			
5	$2.34 \div 10^5$			
6	$234 \div 10^2$			
7	$27.6 \div 10^3$			
8	$276 \div 10^4$			
9	$2.76 \div 10^5$			

Explain to a partner: Why there are patterns of the placement of the decimal point when a decimal is divided by a power of 10.

Discuss your best explanation and write it below. You may continue on the back if needed.
