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 ÷ 10	78.5 ÷		The decimal moved place(s) to the in the answer
2	$7.85 \div 10^2$	78.5 ÷ 78.5 ÷		The decimal moved place(s) to the in the answer
3	$785 \div 10^{3}$	78.5 ÷ 78.5 ÷		The decimal moved place(s) to the in the answer
4	$23.4 \div 10^4$	23.4 ÷ 23.4 ÷		The decimal moved place(s) to the in the answer
5	$2.34 \div 10^{5}$	23.4 ÷ 23.4 ÷		The decimal moved place(s) to the in the answer
6	$234 \div 10^{2}$	23.4 ÷ 23.4 ÷		The decimal moved place(s) to the in the answer
7	$27.6 \div 10^3$	27.6 ÷ 27.6 ÷		The decimal moved place(s) to the in the answer
8	$276 \div 10^4$	27.6 ÷ 27.6 ÷		The decimal moved place(s) to the in the answer
9	$2.76 \div 10^{5}$	2.76 ÷ 2.76 ÷		The decimal moved place(s) to the in the answer

© ThuVienTiengAnh.Com

ESI

Dividing by Powers of 10

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. Your may continue on the back if needed.

I observed

We can generalize that when a number is divided by a power of ten,

the decimal

ESL