Nam	2	Date
1. Write the following in exponential form (e.g., $100 = 10^2$).		
а	. 1000 = d.	100 × 10 =
b	. 10 × 10 = e.	1,000,000 =
С	f.	10,000 × 10 =
2. Write the following in standard form (e.g., $4 \times 10^2 = 400$).		
а	$4 \times 10^3 =$ e.	6.072 × 10 ³ =
b	. $64 \times 10^4 = $ f.	60.72 × 10 ⁴ =
С	$5,300 \div 10^2 = $ g.	948 ÷ 10 ³ =
d	. $5,300,000 \div 10^3 =$ h.	9.4 ÷ 10 ² =
1. C	omplete the patterns.	
а	. 0.02 0.2 20	
b	. 3,400,000 34,000 3.4	
с	8,570 85.7 8.57	
d	. 444 4440 44,400	
e	9.5 950 95,000	

 After a lesson on exponents, Tia went home and said to her mom, "I learned that 10⁴ is the same as 40,000." She has made a mistake in her thinking. Use words, numbers, or a place value chart to help Tia correct her mistake.

- 5. Solve $247 \div 10^2$ and 247×10^2 .
 - a. What is different about the two answers? Use words, numbers, or pictures to explain how the digits shift.

b. Based on the answers from the pair of expressions above, solve $247 \div 10^3$ and 247×10^3 .