Activity 6 Assessment Mental Math with Powers of 10

Mental Math with Powers of 10			
Expresses and uses powers of 10 in a variety of forms	Uses mental math to multiply or divide by powers of 10	Relates multiplication by a negative power and division by a positive power and vice versa	Solves problems involving multiplying or dividing by powers of 10
"1000 is the same as $10 \times 10 \times 10$ and can also be written as 103. $\frac{1}{1000}$ is the same as $\frac{1}{10 \times 10 \times 10}$ and can also be written as 10^{-3} ."	" $3.56 \times 10^3 = 3.56 \times 1000$ = 3560 $3.56 \div 10^3 = 3.56 \div 1000$ = $0.003 56$ "	" 10^{-3} is $\frac{1}{1000}$. So, I think that multiplying by 10^{-3} will be the same as dividing by 10^3 . This means that $3.56 \times 10^{-3} = 0.003 \ 56$. I checked with my calculator, and I am correct."	"8.4 \square 10 ² = 0.084 This is the same as 8.4 \square 100 = 0.084. The answer is smaller than 8.4. If I multiplied 8.4 by 100, the answer would be greater. So, I will use division. I'll check: 8.4 \div 100 = 0.084, which is the answer I want."
Observations/Documentation			