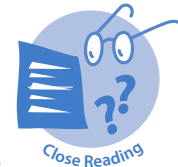


Name: _____

Date: _____

Problem-Based Task: Estimating Depreciation

Yasmina is buying a new car for \$22,000. To estimate how her car will decrease in value, or depreciate, she looks at the price of older versions of the same car. She finds a similar car that is 2.5 years old. The original price of the older car was also \$22,000, and its current selling price is \$16,905. She knows the equation $c = 22,000 \cdot d^t$ can be used to estimate the value of either car, c , in any year t since the car was originally purchased for \$22,000. The value d is used to calculate the new value of the car each year. Create a model to help Yasmina estimate the value of her new car, c , in any year t , if the original purchase price is \$22,000. How much will Yasmina's new car be worth after 6 years?



SMP

1	2
3	4
5 ✓	6 ✓
7 ✓	8

Create a model to help Yasmina estimate the value of her new car, c , in any year t , if the original purchase price is \$22,000. How much will Yasmina's new car be worth after 6 years?