

ALGEBRA II
Chapter 1 section 5
Use Problem Solving Strategies and Models
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FOCUS:

How can problem solving strategies be used to find verbal and algebraic models?

VOCAB:

Verbal Model: _____

WARM – UP:

Solve the equation.

1. $780 = 12.5r$ _____ 2. $9x + 25 = 178$ _____ 3. $636 = 40g + 28(18 - g)$ _____

4. A balloon is released from a height of 5 feet above the ground. Its altitude (in feet) after t minutes is given by the expression $5 + 82t$. What is the altitude of the balloon after 6 minutes?

NOTES:

The driving distance between Boston, Massachusetts, and Cleveland, Ohio, is about 660 miles. If you drive this trip in a total of 12.5 hours, what is your average speed?

The table shows the number of seats in each of the first four rows of an auditorium. The remaining 10 rows follow the same pattern. Find the number of seats in the last row of the auditorium.

Row	1	2	3	4
Seats	12	14	16	18

You are hanging three pictures on a wall in your home that is 16 feet wide. The widths of the three pictures are 2 feet, 3 feet, and 4 feet. You want the space between the pictures to be the same, and for the spaces to the left and right of the group of pictures to each be 6 inches more than the space between adjacent pictures. How should you position the pictures?

Your long - distance telephone plan charges 8 cents per minute for weekday, daytime calls, and 5 cents per minute for night and weekend calls. If you made a total of 220 minutes of long - distance calls during one billing cycle and your bill was \$13.16, not including taxes and fees, how many minutes of night and weekend calls did you make?

Let's see if you comprehended what we worked on in class...

Try _____ for homework