

Balloons.....

Materials Needed:

Construction Paper or poster board.
Colored pens or markers. Scissors
Lined or graph paper, Text book.
Creativity and imagination.

Part I:

You are in a hot air balloon at an altitude of 200 ft.

You decide that you want to go up a little higher and you turn on the burner.

The balloon begins to rise at a rate of 25 ft/minute;

What is the maximum height you will reach after six minutes.

- Model the function of the balloon's altitude over time.
* Create a Verbal Model (Ch 3.5)
- Create an equation for the balloon's altitude over time (t)
* Equation should be in Slope Intercept Form (function form) (Ch 4.2)
- Create an input – output table from 0 to 6 minutes.
* Create a table from your equation. (Ch 4.2)
- Graph the function. Use a line graph.
* Graph the function using your data table and the ordered pairs you have found.

Part II:

Now that you have reached the peak of your balloon trip, you notice that there are some storm clouds brewing. You decide that you'd better get back on the ground soon. You open up the descent flap on the balloon and the balloon begins to descend to the ground at a rate of 30 feet/minute. How long does it take for the balloon to reach the ground from your maximum altitude?

- Model the function of the balloon's altitude as it descends.
* Create a Verbal Model (Ch 3.5)
- Create an equation for the balloon's descent over time (t)
* Equation should be in Slope Intercept Form (function form) (Ch 4.2)
- Create an input – output table **from your maximum height** until the **balloon reaches the ground**.
* Create a table from your equation. (Ch 4.2)
- Graph the function. Use a line graph.
* Graph the function using your data table and the ordered pairs you have found.

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