NAME

Module 3	Integers
Lesson 5	Solving Problems with Integers

Guided Practice 3.5

Set 1

A swimming pool currently has 1,500 gallons of water in it and is filling at a rate of two gallons per hour. How many gallons will the pool hold in eight hours?

1500 + (2)(8) 1500 + 16 1516 1516 gallons in the pool



Find how many gallons of water there were three hours ago in a pool that currently hold seven gallons of water and is draining at a rate of 400 gallons per hour.

7 + (-400)(-3) 7 + 1200 1207 1207 gallons in the pool



A hot air balloon is tied somewhere above ground to a platform labeled zero. Distance above the platform are given as positive integers. Distances below the platform are given as negative integers. The hot air balloon is descending at a rate of two units per hour. Where was it five hours ago?

(-5)(-2) = 10 10 units above the platform



A hot air balloon is tied somewhere above ground to a platform labeled zero. The balloon descends at a rate of four units per hour for two hours; then it ascends three units per hour for four hours. Where is it?

(-4)(2) + (+3)(4) -8 + 12 4 4 units above the platform