

Mr. Tu's Excellent Examples

Module 3 Stunt Pilot



Applying Lesson 3.1

1. The lowest point in the United States is in Badwater Basin, California. The elevation is 281 feet below mean sea level (MSL). If land elevation is measured relative to MSL, what would the elevation at Badwater Basin be?
2. The elevation of Death Valley Airport is -210 MSL. What is the vertical distance between Death Valley Airport and zero MSL? Show using absolute value.
3. The elevation of Death Valley Airport is -210 feet MSL. The elevation of Badwater Basin is -281 feet MSL. What is the absolute value of the elevation change from Badwater Basin to Death Valley Airport?

Applying Lesson 3.2

1. According to the instruments, a stunt pilot is 3,000 feet above the ground. If the pilot increases the elevation of the plane by 1,000 feet, what is the new elevation?
Write and solve an equation using addition to find the new elevation.

2. A plane has an elevation of 4,000 feet above the ground. The plane loses 3,000 feet of altitude. Write and solve an equation using addition to show the new elevation of the plane.

3. Ground speed is the speed a plane is traveling in relation to the ground. Air speed is the speed a plane is traveling through the air. If a plane has an air speed of 300 miles per hour while flying into a headwind of 50 miles per hour, the ground speed is 250 miles per hour. If a plane has an air speed of 300 miles per hour and a tailwind of 50 miles per hour, the ground speed is 350 miles per hour. A plane has an air speed of 500 miles per hour. The plane is flying with a 40 mile per hour tail wind. Write and solve an addition problem to show the ground speed.

4. A plane has an air speed of 450 miles per hour and a head wind of 30 miles per hour. Write and solve an equation using addition to show the ground speed.

Applying Lesson 3.3

1. A plane has an altitude of 8,000 feet above the ground. The plane loses 4,000 feet of altitude. Write and solve a subtraction problem to show the new altitude.
2. A plane has an air speed of 380 miles per hour. The plane is flying into a 30 mile per hour headwind. Write and solve a subtraction problem to show the ground speed.
3. A plane has a ground speed of 400 miles per hour but is flying into a 40 mile per hour headwind. Write and solve a subtraction problem that would show the ground speed if the headwind stopped?

Applying Lesson 3.4

1. The vertical speed indicator in a stunt plane indicates that the plane is going up at a rate of 500 feet per minute. If this rate remains constant for five minutes, how much altitude will be gained? Write and solve a multiplication problem to show your answer.

