

Free Fall Practice

Date: _____

Hour: _____

1. If I threw a ball vertically at an initial speed of 34.5 m/s, how many seconds would it take to reach its maximum height?
2. If a rock fell down a cliff and hit the bottom of the ravine at 4 seconds, how fast was the rock going when it hit the bottom of the cliff?
3. If a ball was thrown upward at 46.3 m/s, how long would the ball stay in the air?
4. How far would a skydiver fall during his first minute of free fall?
5. How long would it take for a penny to fall from the top of the Empire State Building? The building is 381 meters.
6. How fast would the penny from question 5 be going when it struck the ground?
7. A ball was kicked upward at a speed of 64.2 m/s. How fast was the ball going 1.5 seconds later?