

Power Point Notes for Area and Vertical Motion Word Problems, Chapter 7 Alg 1H

1. A triangle has an area of 40 cm^2 . Find the height, h , of the triangle.

2. The length of a rectangular swimming pool is 20 ft greater than its width. The area of the pool is 525 ft^2 . What are its dimensions?

Recall the Vertical Motion Model: _____

h is _____

s is _____

t is _____

v is _____

3. While standing on the roof of a building that was 400 ft high, you dropped an egg. How many seconds will it take the egg to hit the ground?

4. How long would it take a hammer to hit the roof of a truck if the hammer was dropped from a height of 70 ft? The roof of the truck is 6ft high.

5. A football is kicked upward at a velocity of 42 ft per second (ft/s). When will it reach a height of 20 ft?

6. A soccer player kicks a soccer ball with a velocity of 32 ft/s. If the ball reaches a height of 16 ft, how long does it stay in the air (total time)?

7. A monkey throws a coconut down from a tree with an initial velocity of 24 ft/sec. If the monkey is 72 feet up in the tree, how long will it take for the coconut to hit the ground?