

Acceleration Test

1... A rock drops off a shelf that is 2.4 m off the ground? How long does it take the rock to hit the ground? B) What velocity does it hit at?

2...Another stone falls from a cliff and falls for 6.5 seconds. A) With what velocity does it hit the ground? B) How far does the stone drop?

3...Sarah runs at 22 km/hr trips and falls and slides to rest in 1.9 m. a) What is her deceleration? B) How long does it take for her to come to rest?

4...A dime falls from a building and hits the ground at -43 m/s. A) How far did it fall?
B) How long did it take?

5...A rock is thrown upward and goes 44 m up. What velocity was it thrown at? B) How long does it take to get to the top

6...A rock goes from rest to 44 km/hr during a 1.2 m throwing action. A) What is the rock's acceleration? b) How long did it take?