

Physics Worksheet 7

- (1) A car decelerates from 25.0 m/s to 12.0 m/s at -3.92 m/s^2 . How long does this take?
- (2) A car travelling at 22.3 m/s steps on the accelerator for 2.40 s. If the car travels 69.2m in that time, what is the car's final speed?
- (3) A particularly evil teacher sees a nuisance students walking below his 20.0 m high classroom window. He throws a water balloon down at the student that hits the student in the head 0.25 s later. If the student is 1.65 m tall, how fast did the teacher throw the balloon?
- (4) A boy throws a rock upwards off a bridge at 20.0 m/s. If the rock hits the ground at 40.0 m/s, how high is the bridge?
- (5) A witch is hovering 55.2 m off the ground on her broom when she drops a pumpkin towards some children. How long does it take the pumpkin to reach the ground?