## Review For Test 1 MP 1

$$d = vt$$

$$v_f = v_i + at$$

1) An antelope is galloping at 12 meters per second (m/s). It does this for 50 seconds (s). How far has the antelope gone?

2) A car is traveling at 70 mph. How far does it go in 25 minutes?

3) What is the final speed if an object moving at 30 m/s accelerates at 7 m/s<sup>2</sup> for 8 s?

t = 854) What is the acceleration if an object goes from 15 m/s to 37 m/s in 1.7 s?

$$a = ?$$

5) A car travels at 40 m/s for 18 minutes. How far has it gone?

t= 1080 <

6) An object accelerates as it travels 200 m in 8 s. Its final speed was 30 m/s.

a) What was the average speed?

$$d = 200 \text{m}$$
  $d = 1 \text{t}$   
 $t = 88$   $200 = 1 (8)$   
 $V_F = 30\%$   $200/8 = 1 = [25\text{m/s}]$ 

b) What was the initial speed?

$$V = \frac{Vi+V_F}{2} \qquad (25)(3) = Vi+30$$

$$50 = Vi+30$$

$$50-30 = Vi = 20$$

7) An object starts at rest. It accelerates at 4 m/s<sup>2</sup> for 12 seconds. How far has it gone?

$$V_{i}=0 \, m/s$$
 $Q = V_{i} + V_{i}$ 
 $Q = V_{i} +$ 

8) An object travels 40 m in 8 s at a constant speed. It then accelerates at m/s<sup>2</sup> for 10 s. What is the final speed of the object?

PHASE 1

$$d = 40m$$
 $t = 8s$ 
 $d = 7 \frac{8}{5}z$ 
 $V_{F} = 5 + (7)(10)$ 
 $V_{F} = 7$ 
 $V_{F} = 7$ 

Answers: 1) 2) 3) 4) 5) 6) 7) 8)