

Name _____

Date _____

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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^2 for 8 s?
- 4) What is the acceleration if an object goes from 15 m/s to 37 m/s in 1.7 s?
- 5) A car travels at 40 m/s for 18 minutes. How far has it gone?

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?

b) What was the initial speed?

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

8) An object travels 40 m in 8 s at a constant speed. It then accelerates at 7 m/s^2 for 10 s. What is the final speed of the object?

Answers: 1) 600 m 2) 29 m 3) 86 m/s 4) 12.9 m/s^2 5) 43,200 m 6a) 25 m/s b) 20 m/s 7) 288 m 8) 75 m/s