

52

December Review



Name _____

$$d = vt$$

$$v_f = v_i + at$$

$$d = v_i t + (1/2)at^2$$

$$g = 9.8 \text{ m/s}^2$$

- 1) Describe something you have seen in your lifetime. Use at least three of the following words; distance, time, speed, acceleration, projectile, trajectory. Use at least two full sentences for your answer.

- 2) Winter vacation is coming. For how many seconds will we be on winter vacation?

- 3) A car is driven at an average speed of ____ mph for 1 hour and 36 minutes. How far did the car travel in that time?

$$d = vt$$

$$v_f = v_i + at$$

$$d = v_i t + \frac{1}{2}at^2$$

$$g = 9.8 \text{ m/s}^2$$

- 4) A person starts from rest and accelerates at 2 m/s^2 for ____ s. They then travel at their new speed for 7 s. How far have they travelled all together?

- 5) A projectile is fired horizontally from a height of ____ m. Its initial speed was 25 m/s . How far away did the projectile land?