

Name: \_\_\_\_\_  
Miss Charney

Date: \_\_\_\_\_  
Physical Science

### Motion & Forces Review Sheet

#### Practice Math Problems:

1. If you walked 20m, took a book from a library table, turned around and walked back to your seat, what are the distance traveled and displacement?



$$\text{Distance} = 20\text{m} + 20\text{m} = 40 \text{ meters}$$

$$\text{Displacement} = 0 \text{ (you ended up where you began)}$$

2. Explain why a passenger who is not wearing a safety belt will likely hit the windshield in a head-on collision.

An object (the passenger) in motion will stay in motion, unless acted on by an unbalanced force (the windshield).

3. A satellite's speed is 10,000 m/s. After 1 min, it is 5,000 m/s. What is the satellite's acceleration?

$$v_i = 10,000\text{m/s}$$

$$v_f = 5,000\text{m/s}$$

$$t = 1 \text{ min} = 60 \text{ s}$$

$$a = ?$$

$$a = \frac{v_f - v_i}{t}$$

$$a = \frac{5,000 - 10,000}{60}$$

$$a = \frac{-5,000}{60}$$

$$a = -83.3 \text{ m/s}^2$$

4. Sound travels at a speed of 330 m/s. How long does it take for the sound of thunder to travel 1485 m?

$$t = ?$$

$$s = 330 \text{ m/s}$$

$$d = 1,485\text{m}$$

$$s = \frac{d}{t}$$

$$t = \frac{d}{s}$$

$$t = \frac{1485}{330}$$

$$t = 4.5\text{s}$$

5. Find your mass if a scale on Earth reads 650 N when you stand on it.

$$m = ?$$

$$W = 650\text{N}$$

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

$$W = mg$$

$$m = \frac{W}{g}$$

$$m = \frac{650}{9.8}$$

$$m = 66.3\text{kg}$$

# Science Review Forces Section Answer Key

**Padhraic Smyth**



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