

Name: Answer Key
Teacher: _____

Date: _____
Section: _____

Chapter 6 Review Packet
Physics

1. What is momentum? Write the definition and the equation.

Inertia in motion $p = mv$

2. What is impulse? Write the definition and the equation.

The effect of a force acting over time
 $J = Ft$

3. What is the relationship between momentum and impulse?

$J = \Delta p$ Impulse equals CHANGE in momentum

4. A 200 kg car rolls to the right at 3 m/s. What is the car's momentum?

Given:

$$m = 200 \text{ kg}$$
$$v = 3 \text{ m/s}$$

Solution:

$$p = mv$$
$$= 200(3) = \boxed{600 \text{ kgm/s}}$$

5. A 200 kg car rolls to the left at 3 m/s. What is the car's momentum?

Given:

$$m = 200 \text{ kg}$$
$$v = -3 \text{ m/s}$$

Solution:

$$p = mv$$
$$= 200(-3) = \boxed{-600 \text{ kgm/s}}$$

6. An airbag exerts a 100N force on a person over a period of 2 seconds. What is the impulse exerted on the person?

Given:

$$F = 100 \text{ N}$$
$$t = 2 \text{ s}$$

Solution:

$$J = Ft$$
$$= 100(2) = \boxed{200 \text{ kgm/s}}$$

7. A 0.5 kg ball smashes into the wall and comes to a stop. If the initial velocity of the ball was 6 m/s, what is the change in momentum of the ball?

Before & After Picture:

Before

$$\text{⊙} \rightarrow m = 0.5 \text{ kg}$$
$$v_i = 6 \text{ m/s}$$

After

$$\text{○} m = 0.5 \text{ kg}$$
$$v_f = 0 \text{ m/s}$$

Solution:

$$\Delta p = p_f - p_i$$
$$= mv_f - mv_i = 0.5(0) - 0.5(6)$$
$$= \boxed{-3 \text{ kgm/s}}$$

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