

Skill 20 – Inertia, Momentum, Impulse, Newton's Laws Practice Questions:

1. A skateboarder is moving with a constant velocity of 2m/s. What is the net force acting on the object? How do you know?

$v = 2\text{m/s}$
 $a = 0$
 $F_{\text{net}} = 0$

IF an object is not accelerating it is not experiencing a net force

IF $F_{\text{net}} = 0 = a \cdot m$ must $= 0$

2. In a weightless environment a force of 5 Newtons is applied horizontally to the right on a rock with a mass of 1 kg and to a pebble with a mass of 0.1 kg.

- a. Which object is easier to start moving?

1kg ← less inertia i.e. less resistance to change

- b. Determine the acceleration of the rock while acted upon by the 5N force?

$F_{\text{net}} = 5\text{N}$ (only one so it is F_{net})

$m = 1\text{kg}$

$a = ?$

$a = \frac{F_{\text{net}}}{m} = \frac{5\text{N}}{1\text{kg}} = 5\text{m/s}^2$

- c. Determine the acceleration of the pebble while acted upon by the 5 N force?

$F_{\text{net}} = 5\text{N}$

$m = 0.1\text{kg}$

$a = ?$

$a = \frac{F_{\text{net}}}{m} = \frac{5\text{N}}{0.1\text{kg}} = 50\text{m/s}^2$

- d. Review: Determine the speed of each if the 5N force (and acceleration) act on each for 0.5 seconds.

Rock
 $a = 5\text{m/s}^2$
 $v_i = 0$
 $v_f = ?$
 $t = 0.5\text{s}$

$v_f = v_i + at$
 $v_f = 0 + (5\text{m/s}^2)(0.5\text{s})$
 $v_f = 2.5\text{m/s}$

Pebble
 $a = 50\text{m/s}^2$
 $v_i = 0$
 $v_f = ?$
 $t = 0.5\text{s}$

$v_f = v_i + at$
 $v_f = 0 + (50\text{m/s}^2)(0.5\text{s})$
 $v_f = 25\text{m/s}$

- e. What will happen to the objects after they are no longer acted upon by the 5 Newton force?
 move at constant speeds as shown above

- f. Which object will be easier to stop moving?

Pebble → less inertia → i.e. less mass

- g. What must happen for the motion to stop?

a force must be applied for some amount of time i.e. an Impulse $J = F_{\text{net}}t$

3. Two rocks are rolling at constant speed: A 2kg rock rolling with a speed of 4m/s and a 4 kg rock rolling with a speed of 2m/s.

- a. Compare the momentum of each rock.

They both have a momentum of $8\text{kg} \cdot \text{m/s}$

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