

Assessment

Chapter Test B**Teacher Notes and Answers**
Forces and the Laws of Motion**CHAPTER TEST B (ADVANCED)**

- d
- a
- c
- b

Given

$$F_y = 60.0 \text{ N}$$

$$\theta = 30.0^\circ$$

Solution

$$\cos \theta = \frac{F_y}{F}$$

$$F = \frac{F_y}{\cos \theta} = \frac{60.0 \text{ N}}{\cos 30.0^\circ} = 70.0 \text{ N}$$

- c
- d
- d
- a
- c
- a
- b
- a

Given

$$F_D = 1.0 \times 10^2 \text{ N}$$

$$\theta = 20.0^\circ$$

Solution

$$\sum F_y = F_n - F_{D,y} = 0$$

$$F_n = F_{D,y} = F_D \cos \theta =$$

$$(1.0 \times 10^2 \text{ N})(\cos 20.0^\circ) = 94 \text{ N}$$

- b

Given

$$F_{D, \text{total}} = 5 \text{ N}$$

$$\mu_s = 0.2$$

Solution

$$F_{\text{net}} = \sum F_x = F_{\text{applied}} - F_{L, \text{max}} = 0$$

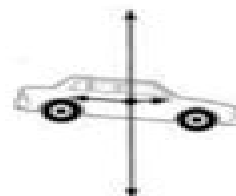
$$F_{\text{applied}} = F_{L, \text{max}} = \mu_s F_n = \mu_s F_D$$

$$F_D = (5 \text{ N} + 5 \text{ N} + 5 \text{ N} + 5 \text{ N} + 5 \text{ N})$$

$$= 25 \text{ N}$$

$$F_{\text{applied}} = (0.2)(25 \text{ N}) = 5 \text{ N}$$

- Force causes an acceleration or a change in an object's velocity. Applying the brakes decelerates the bicycle (accelerates it in the negative direction) and causes a change in the bicycle's velocity because the bicycle slows down.
- A scalar quantity has only magnitude. Force has both magnitude and direction; so, it cannot be a scalar quantity.
-



- The natural condition for a moving object is to remain in motion once it has been set in motion.
- Gravity exerts a downward force on the car that is balanced by the normal force of the road acting upward on the car. The car's forward motion is opposed by the friction between the road and the tires and by the resistance of the air. The sum of these opposing forces is balanced by an equal and opposite force exerted by the engine and applied to the tires, where the road exerts a reaction force that is directed forward.
- Mass is the amount of matter in an object and is an inherent property of an object. Weight is not an inherent property of an object and is the magnitude of the force due to gravity acting on the object.
- The acceleration is then zero, and the car moves at a constant speed.

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