# Chapter 4

**1.** How small a force does there is a combined mass of 60 kg. Have needs breaking force has to be applied to allow some boxes a velocity of 5 m/s on a conveyor belt of 2 m?

$$a = \frac{v_f - v_i}{t_f - t_i} = \frac{5.0\ \text{m/s} - 0.0\ \text{m/s}}{2.0\ \text{s} - 0.0\ \text{s}}$$

$$= 2.5\ \text{m/s}^2$$

$$F = ma$$

$$= 60\ \text{kg} \times (-2.5\ \text{m/s}^2)$$

$$= -300\ \text{N}$$

**2.** Without considering fuel consumption, a ship whose width is 40 m and 90.0 kg experiences an upward force from the atmosphere and 1.50 N.

**a.** What force is acting on the ship above?

$$F_{gravity} = mg$$

$$= 90.0\ \text{kg} \times 9.80\ \text{m/s}^2$$

$$= 882\ \text{N downward}$$

$$F_{net} = F_{air\ resistance} + F_{gravity}$$

$$F_{net} = 1.50\ \text{N} + (-882\ \text{N})$$

$$= -730.5\ \text{N}$$

$$= 730\ \text{N downward}$$

**b.** What is the ship above's acceleration?

$$a = \frac{F_{net}}{m}$$

$$= \frac{-730\ \text{N}}{90.0\ \text{kg}}$$

$$= -8.1\ \text{m/s}^2$$

$$= 8.1\ \text{m/s}^2\ \text{downward}$$

**3.** A Ganger Bathysphere is round so that a force gravity on the round all a name breathing. The mass of the bathysphere is $5.0 \times 10^4$ kg and the mass of the force gravity is 5.00 kg.

**a.** Does gravity force upward the air stream and the bathysphere so that the force gravity which are accelerations of 9.8 m/s$^2$?

$$F_{net} = F_{air} + F_{gravity\ on\ bathysphere}$$

$$= ma + mg$$

$$= (5.0 \times 10^4\ \text{kg})(1.3\ \text{m/s}^2) + (5.0 \times 10^4\ \text{kg})(9.80\ \text{m/s}^2)$$

$$= 7.2 \times 10^4\ \text{N upward}$$

**b.** Then the bathysphere connected on the broad earth cable, withstanding a tension of $1.5 \times 10^5$ N. Does the broad the cable lifted at 1.3 m/s$^2$?

$$F_{Gravity} = F_{air} + F_{bathysphere\ gravity}$$

$$= ma + mg$$

$$= (5.0 \times 10^4\ \text{kg})(1.3\ \text{m/s}^2) + (5.0 \times 10^4\ \text{kg})(9.80\ \text{m/s}^2)$$

$$= 2.2 \times 10^5\ \text{N} + 4.90 \times 10^5\ \text{N}$$

$$= 7.1 \times 10^5\ \text{N}$$

**The broad cable has safely lifted because the total force on the lifting is less than the maximum capability of $1.5 \times 10^5$ N.**

**4.** In a half-a-gravitometer, you attach a 2.0 kg weight on a spring scale. How fast that scale and weight scale a constant reading of 2.5 N.

**a.** What is the scale and the force on the accelerations on the weight?

$$F_{net} = F_{scale} + F_{gravity}$$

$$= 2.5\ \text{N} + (2.0\ \text{kg})(9.80\ \text{m/s}^2)$$

$$= 2.5\ \text{N upward}$$

$$a = \frac{F_{net}}{m}$$

$$= \frac{2.5\ \text{N}}{2.0\ \text{kg}}$$

$$= 0.50\ \text{m/s}^2$$

$$= 5.0 \times 10^{-1}\ \text{m/s}^2$$

**b.** Where has the scale left the weight on the after 2.0 s elapsed?

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

$$= 0\ \text{m} + (0\ \text{m/s})(2.0\ \text{s}) + \frac{1}{2}(5.0 \times 10^{-1}\ \text{m/s}^2)(2.0\ \text{s})^2$$

$$= 1.0\ \text{m}$$

**5.** An a Kaplan left Stone on a conveyor at a speed of $9.0 \times 10^{-1}$ m. The mass of the phone is $2.0 \times 10^{-1}$ kg.

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