

Holt Physics

Problem 2B**AVERAGE ACCELERATION****PROBLEM**

In 1977 off the coast of Australia, the fastest speed by a vessel on the water was achieved. If this vessel were to undergo an average acceleration of 1.80 m/s^2 , it would go from rest to its top speed in 85.6 s. What was the speed of the vessel?

SOLUTION**Given:**

$$a_{\text{avg}} = 1.80 \text{ m/s}^2$$

$$\Delta t = 85.6 \text{ s}$$

$$v_i = 0 \text{ m/s}$$

Unknown:

$$v_f = ?$$

Use the definition of average acceleration to find v_f .

$$a_{\text{avg}} = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{\Delta t}$$

Rearrange the equation to calculate v_f :

$$v_f = a_{\text{avg}} \Delta t + v_i$$

$$v_f = \left(1.80 \frac{\text{m}}{\text{s}^2} \right) (85.6 \text{ s}) + 0 \frac{\text{m}}{\text{s}}$$

$$= 154 \frac{\text{m}}{\text{s}}$$

$$= \left(154 \frac{\text{m}}{\text{s}} \right) \left(\frac{3.60 \times 10^3 \text{ s}}{1 \text{ h}} \right) \left(\frac{1 \text{ km}}{10^3 \text{ m}} \right)$$

$$= \boxed{554 \frac{\text{km}}{\text{h}}}$$

ADDITIONAL PRACTICE

1. If the vessel in the sample problem accelerates for 1.00 min, what will its speed be after that minute? Calculate the answer in both meters per second and kilometers per hour.
2. In 1935, a French destroyer, *Le Terrible*, attained one of the fastest speeds for any standard warship. Suppose it took 2.0 min at a constant acceleration of 0.19 m/s^2 for the ship to reach its top speed after starting from rest. Calculate the ship's final speed.
3. In 1934, the wind speed on Mt. Washington in New Hampshire reached a record high. Suppose a very sturdy glider is launched in this wind, so that in 45.0 s the glider reaches the speed of the wind. If the

Holt Physics Answer 2b

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