

Lesson 5 - Momentum and Impulse

18Q

Turtle

$$p = mv$$

$$= (8.6 \times 10^2 \text{ kg}) (1.3 \frac{\text{m}}{\text{s}})$$

$$= 1118 \text{ kg} \cdot \frac{\text{m}}{\text{s}} = 1.1 \times 10^3 \text{ kg} \cdot \frac{\text{m}}{\text{s}} \text{ [Forward]}$$

car

$$a) v \times 2 \rightarrow p = m \times 2v \therefore [p = \text{doubled}]$$

$$b) m \times 2 \rightarrow p = 2mv \therefore [p = \text{doubled}]$$

$$c) v \times 3, m \times 0.5 \rightarrow p = \frac{1}{2} m \times 3v \therefore [p = 3/2 \times \text{larger}]$$

car stopping

$$\begin{aligned} a) p &= 1000 \times 8.3 \\ &= 8333.3 \text{ kg} \cdot \frac{\text{m}}{\text{s}} \\ &= 8.3 \times 10^3 \text{ kg} \cdot \frac{\text{m}}{\text{s}} \end{aligned}$$

$$\begin{aligned} v &= 30 \text{ km/h} \times \frac{1000 \text{ m}}{1 \text{ km}} \times \frac{1 \text{ h}}{3600 \text{ s}} \\ &= 8.3 \text{ m/s} \end{aligned}$$

$$\begin{aligned} b) F \Delta t &= \Delta p \\ F(0.1) &= 8333.3 \\ F &= 83333 \text{ N} = 8.3 \times 10^4 \text{ N} \end{aligned}$$

$$\begin{aligned} c) F(0.5) &= 8333.3 \\ F &= 16666.6 \text{ N} = 1.7 \times 10^4 \text{ N} \end{aligned}$$

d) They increase the time required to stop your momentum thus decrease the force needed to do so.

Momentum Science Bhs Answers

Yicheng Fang



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