Warm-Up

If a car is accelerating at a rate of 3.5 m/s^2, determine how long it takes to increase in speed from 20.4 m/s to 32.5 m/s.

$$a = 3.5 \, m/s^2$$
$$S_1 = 20.4 \, m/s$$
$$S_2 = 32.5 \, m/s$$
$$t = ?$$

$$\frac{S}{t} = a$$

$$\frac{S_2 - S_1}{t} = a$$

$$t = \frac{S_2 - S_1}{a}$$

$$= \frac{32.5 \, m/s - 20.4 \, m/s}{3.5 \, m/s^2}$$

$$= 3.5 \, s$$

Acceleration Worksheet

Attachments

Answers Extra Practice Acceleration WS.notebook