

ACCELERATION WORKSHEETS



Directions: Answer the question below!

1. A roller coaster car rapidly picks up speed as it rolls down a slope. As it starts down the slope, its speed is 4 m/s. But 3 seconds later, at the bottom of the slope, its speed is 22 m/s. What is its average acceleration?

$$\frac{22 \text{ m/s} - 4 \text{ m/s}}{3 \text{ s}} = 6 \text{ m/s}^2$$

2. A cyclist accelerates from 0 m/s to 8 m/s in 3 seconds. What is his acceleration? Is this acceleration higher than that of a car which accelerates from 0 to 30 m/s in 8 seconds?

Cyclist $\frac{8 \text{ m/s} - 0 \text{ m/s}}{3 \text{ s}} = 2.6 \text{ m/s}^2$ (lower)

Car $\frac{30 \text{ m/s} - 0 \text{ m/s}}{8 \text{ s}} = 3.75 \text{ m/s}^2$

3. A car advertisement states that a certain car can accelerate from rest to 70 km/h in 7 seconds. Find the car's average acceleration.

$$\frac{240 \text{ m/s} - 0 \text{ m/s}}{7 \text{ s}} = 34.3 \text{ m/s}^2$$

4. A lizard accelerates from 2 m/s to 10 m/s in 4 seconds. What is the lizard's average acceleration?

$$\frac{10 \text{ m/s} - 2 \text{ m/s}}{4 \text{ s}} = 2 \text{ m/s}^2$$

5. If a Ferrari, with an initial velocity of 10 m/s, accelerates at a rate of 50 m/s/s for 3 seconds, what will its final velocity be?

$$2 \text{ m/s}^2 = \frac{VF - 10 \text{ m/s}}{3 \text{ s}} \rightarrow 150 \text{ m/s} = VF - 10 \text{ m/s}$$

$$VF = 160 \text{ m/s}$$

Acceleration Worksheet Answer Key

Mike Jess

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