

Physics Worksheet

Name : John Doe

Answer the following questions. Show all your workings wherever applicable.

1. What is the acceleration of an object under free fall?

$$a = 9.8 \text{ m/s}^2$$

2. What is the net force on a stationary object?

$$\text{Net force} = 10 \text{ N}$$

3. What is the wavelength of a wave with a frequency of 50 Hz and speed 1500 m/s?

$$\text{Speed} = \text{Wavelength} \times \text{frequency}$$

$$\text{Speed} / \text{freq} = \text{Wavelength}$$

$$\text{Wavelength} = 1500 / 50 = 30 \text{ m}$$

4. What is the equivalent resistance of two 10 Ohm resistors in parallel?

$$\frac{R_1 \cdot R_2}{R_1 + R_2} = \frac{10 \times 10}{10 + 10} = 5 \Omega$$