

Physics Worksheet

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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?

$$\text{net force} = 0 \text{ N}$$

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

$$s = \lambda \cdot f$$
$$\frac{s}{f} = \lambda \quad \frac{1500}{50} = \lambda = 30 \text{ m}$$

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

$$R_1 + R_2 = 10 + 10 = 10 \Omega$$