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?

$$a = 8.0 \, m/s^2$$

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

Net force = 10 N

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

$$S = \lambda \cdot f$$
$$S/f = \lambda$$

$$1500 / 50 = \lambda$$

$$\lambda = 30m$$

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

$$R1 + R2 = 5 + 5 = 10 \, \Omega$$