

Physics 11 Unit 1 – Frequency, Period, Kinematics Worksheet #1

Name: _____

1. A dryer spins 4 times in one second. Find the period and the frequency of the dryer.

2. How long does the dryer take to spin 8 times?

3. A blender spins 8400 times in 1 min. Find the frequency and the period of the blender.

4. How many times does the blender spin in 27 seconds?

5. I clap my hands three times in one second. Find the period and the frequency of my hand claps.

6. A child swings back and forth on a swing at a frequency of 0.6 Hz. How long is the period of the swing?

7. A speaker cone vibrates back and forth at 100 Hz. Find the period of one vibration.
8. A motor spins once in 0.35 seconds. Find the frequency.
9. A car motor spins at 4500 rpm. This is 4500 revolutions in 1 min. Find the frequency and period of the motor.
10. A car drives to Kamloops, a distance of approximately 70 km, at average speed of 114 km/hr. How long did it take to get to Kamloops?
11. A truck drives to Vancouver in 4 hours, covering a distance of 380 km. Find the average speed of the truck.
12. A runner travels 10 km in 0.75 hours. What was the average speed of the runner?
13. Convert 60 km/hr into m/s. Show all your working.