

Name \_\_\_\_\_

## Outer Space Proportional Relationship Word Problems Answer Key

1. It will take the spacecraft approximately 1,300 hours (or 54 days) to reach Mars.
2. The person would weigh approximately 10 kg on the Moon.
3. The light can travel approximately 9.46 trillion kilometers in 1 year.
4. The orbital period would be 730 days.
5. The object would weigh approximately 12.5 kg on the distant planet.
6. The surface temperature would be 5,000 degrees Celsius for the larger star as well.
7. The comet will be traveling at 60,000 kilometers per hour when it is 200 million kilometers from the Sun.
8. The intensity would be 20 units at a distance of 2 billion light-years.
9. The diameter would be 20,000 kilometers for the larger planet.
10. The period would be 200 years for the larger binary system.

