

Activity 13: Study Of Planets

PART A

Hunter, Amanda, Anthony, Madison, Aaron, and Sydney each wrote a report on a different planet (Mercury, Venus, Jupiter, Uranus, Mars, and Earth). Figure out which planet each person studied. Assume Pluto is further from the sun than Neptune.)

- 1 Jupiter is further from the sun than Hunter's planet.
- 2 Earth is closer to the sun than Hunter's planet.
- 3 Madison's planet has rings.
- 4 Mercury is closer to the sun than Sydney's planet.
- 5 Earth is closer to the sun than Amanda's planet.
- 6 Venus is closer to the sun than Hunter's planet.
- 7 Amanda's planet is further from the sun than Hunter's planet.
- 8 Jupiter is further from the sun than Sydney's planet.
- 9 Mars is further from the sun than Aaron's planet.
- 10 Anthony has the smallest planet.
- 11 Amanda's planet is further from the sun than Sydney's planet.
- 12 Aaron's planet is further from the sun than Sydney's planet.
- 13 Aaron's planet is the third planet from the sun.
- 14 Uranus is further from the sun than Hunter's planet.
- 15 Madison's planet is the seventh planet from the sun.

PART B

- 1 It takes Jupiter four thousand, three hundred twenty-eight and nine tenths Earth days to orbit the sun. How much quicker is Earth's revolution?
- 2 Saturn's radius is about 60,331.7 Km. Mercury's diameter is about 2,439.0 Km. The diameter of Saturn is how much larger than Mercury's diameter?
- 3 Neptune is four thousand, five hundred four million kilometres from the sun, and Pluto is five thousand, nine hundred million kilometres from the sun. How much further from the sun is Pluto?
- 4 It takes Mercury fifty-eight and six tenths Earth days for a complete rotation and eighty-eight Earth days for a complete revolution. How does Mercury's time for a complete rotation compare to that of Earth's?
- 5 The composition of Pluto is not yet known. Daniel estimates that Pluto is a mixture of twenty-nine percent rock and the rest of the planet is made of water. What percent of Pluto does Daniel estimate to be water?
- 6 Sarah is an astronomer. She estimated that during Mercury's day, the planet reached a high temperature of 412°C. Sarah estimated that during the night, the temperature dropped 562°C from the high temperature. What was Sarah's estimate for the low temperature?