

Module 1 assessment review

Name: _____

1. Andrew walked 1,550 meters and Justyce walked 1.6 kilometers. Who walked a farther distance, Andrew or Justyce?

- a. Rewrite the distance for each person in meters using scientific notation and state which person walked further (1,000 meters = 1 kilometer)

- b. How many greater did one person walk than the other? Write a ratio of the person who walked farther to the person you walked a shorter distance, then solve the ratio.

2. Use the following table.

Planet	Distance from the Sun (km)
Saturn	1.4294×10^9
Mercury	5.7×10^7
Venus	1.082×10^8
Earth	1.496×10^8
Pluto	5.9152×10^9
Jupiter	7.7833×10^8
Neptune	4.5043×10^9
Mars	2.2794×10^8
Uranus	2.87099×10^9

- a. Put the planets in order from the closest distance to the sun from the farthest distance from the sun.

- b. Comparing in km, about how many times farther is Neptune than Earth from the sun?

- c. Comparing in km, about how many times farther is Saturn than Mercury from the sun?
- d. If I wanted to square Mercury's distance from the sun, what would it be?

3. There are 9.72×10^4 quarts of water that fill up an average size pool?

- a. In scientific notation, how many gallons fill up the average pool? (4 quarts = 1 gallon)
- b. Using the average amount of gallons, if there are 74 pools in Philadelphia, then how many gallons are there in all of the pools? Write your answer in scientific notation.
- c. In the county over there are 1.234×10^6 gallons of water in all of their pools. If the pool size is the same amount per gallon, about how many pools are there in this county?

Question 4-5 are multiple choice

4. 5 raised to what power equals 125

- a. 5
- b. 4
- c. 3
- d. 2

5. Find the quotient of 4.2×10^{-3} and 1.2×10^{-5}

- a. 3.5×10^{-8}
- b. 3.5×10^2
- c. 3×10^{-8}
- d. 3×10^2

The following questions are short answer

6. Find the quotient 3.4×10^{-2} and 1.5×10^2

7. Find the product 1.67×10^3 and 3.4×10^4

8. Find the sum 3.8×10^5 and 2.3×10^5

9. Find the difference 4.5×10^4 and 1.9×10^4