Quick Check on Decimal Applications

Your Answers:

1) Clark spent $34 on tickets to the movie and $8.75 at the snack counter for popcorn. He had also purchased a single red rose from a local street vendor for 75¢. How much did he spend on his date with Lois?

1. _____

2) Bruce marveled at the green color produced by mixing 1.75 ml of lemon juice to 0.025 ml of blue food color. What is the total amount of fluid in the test tube?

2. _____

3) Tony's electromagnet has a core of soft iron whose weight is 22.7 grams. A mole of iron weighs 55.845 grams which is the atomic weight of iron. What is the difference between these two quantities?

3. _____

4) Jean is thinking about moving to Phoenix which has a population over 1.67 million. She currently lives in Kansas City with a population of 0.516 million. Approximately how many more people live in Phoenix?

4. _____

5) One slice of American cheese weighs approximately 0.06 lb. If the price is $3.50 per pound, what will Steve pay for each slice?

5. _____

6) Peter, fascinated with the large spider web in the corner of his room, measured the distance across the web and found that the approximate diameter was 1.2 meters. Find the approximate circumference (C) of the almost circular web which equals the diameter times π (use 3.14 as the value for π).

6. _____

7) The troposphere extends upward about 6.2 miles. If Carol flies 0.05 miles per second, how many seconds before she exits this lowest layer of earth's atmosphere?

7. _____

8) After the storm, Sue shoveled 11 inches of snow off the driveway. If it had snowed for two and a half hours (2.5 hours), what was the rate of snowfall in inches per hour?

8. _____

9) Grayson turned on the floodlight positioned on the top of the building, although the electricity rates had risen to $0.204 per kilowatt hour. This floodlight typically uses 50 kilowatts per hour. How much will it cost to light the streets below until dawn (10 hours)?

9. _____

10) Diana wondered whether to purchase the tiara from the local shopping mall for $25 plus a sales tax of 6¢ on every dollar spent or order from the online retailer for $22.50 plus $4.25 shipping. How much more will she pay if she orders online?

10. _____

Think you've got this? Score yourself by comparing your answers with the correct answers!