

Number Systems Retake

Short Answer

1. (2 points) There were a total of 24 cars in a parking lot. Of those cars, 6 were blue. Write a decimal that shows the number of cars that were blue.

2. (2 points) Evaluate the expression for the given values of the variables. Justify each step.
 $3.6 + x + y$, when $x = -5.9$ and $y = -3.6$

3. (2 points) Find the missing number.

$$5 + 3 - 6 - 8 + 4 - \square = -9$$

4. (6 points) Troy receives a rough piece of metal 2.7 inches thick and files off 0.18 inch. Miguel polishes the metal and removes an additional 0.05 inch.

Part A: What is the thickness of the piece when Miguel receives it?

Part B: What is the total amount filed off the metal?

Part C: What is the thickness of the metal after being polished?

5. **(2 points)** The dimensions of last year's cornfield were three times the dimensions of this year's field. If the dimensions last year were 8.25 km by 5.7 km, what are the dimensions this year?

6. **(2 points)** Mr. Ashton's new computer has a capacity of 16 gigabytes (GB) of memory. He has the following programs, applications, and files installed and stored on his computer:

Mr. Ashton's Computer	
Program	Size (gigabytes)
Operating System	1.32
Solitaire Game	0.54
Drawing Program	2.703
General Files	3.7
Browser	1.04
Videos	5.13
Photos	2.592

Does he have enough memory left to download a book that uses 2.8 GB? If so, how much memory would be left after the download?

Show your work.

7. **(4 points)** Weekly salaries for 5 employees at a small company are \$7000, \$750, \$500, \$620, and \$550.

Part A: Find the mean and median of the 5 weekly salaries.

Part B: Which measure better describes the typical weekly salary? Explain your reasoning.