

PQM 201B Math Self Assessment

1. Five pieces of bar stock were delivered. Their lengths in inches were 36, 38, 39, 40 and 42.
 - a. What is the average length of the bar stock received in inches? _____ inches
 - b. What is the average length in ft? _____ ft
 - c. The specification for the bar stock was Length = 38 +/- 3 inches. How many pieces were within spec? _____

2. Round the following numbers to the stated level.

- a. Round 23.44 to the nearest tenth: _____
- b. Round 6.66667 to the nearest tenth: _____

3. Solve for the variable (w , x , y , and d) used in the equations below:

- a. $49 = 17 + w$
- b. $84 = 4d$

4. Find the missing numbers for the blank spaces in the tables for each function.

$y = 3x$	
x	y
2	
-1	
	15

$y = 2x + 3$	
x	y
1	
0	
	-1

$y = 5x - 12$	
x	y
3	
	-17
	-2

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5. Evaluate, or solve, the following expressions. Note: $x = 3$, $y = -1$, and $z = 5$.
- $3(x-z) = \underline{\hspace{2cm}}$
 - $(x-y)/2 = \underline{\hspace{2cm}}$
 - $(x+y)(z+x)-2 = \underline{\hspace{2cm}}$
6. The plant produced 250 widgets during the day shift. There were eight defective items.
- What percentage of produced parts were defective? $\underline{\hspace{2cm}}$ %
 - In a batch of 750 parts, how many are expected to be defective? $\underline{\hspace{2cm}}$
parts
 - How many parts should they plan to produce if they want 1000 defect-free parts? $\underline{\hspace{2cm}}$