

I. Warmup

1. What are the 4-steps to problem solving?

2. Sam can fold 15 more letters than John each hour. How many letters did John fold in 1 hour if Sam folded 155 letters?

3. $x^3 = 64$

What is x?

4. $x^2 = 100$

What is x?

5.

$x + 0.2 = 6.35$ *Check*

II. Guess and Check

Solve for x:

$$\frac{\frac{4}{2x}}{\frac{4}{x^2(x+4)}} = 0$$

6. Consecutive numbers are integers that are right after each other. Find three consecutive integers such that the sum of the first two integers is 3 greater than the third. Use the guess and check problem solving method.

Guess and Check Problem Solving:

To use the guess and check method adjust your guesses based on the results. Always check your answer!

8. On our farm we have 55 animals. There are 2 times as many cattle as goats, and 5 times as many chickens as cattle. We also have 1 dog, 1 cat, and 1 pig. How many of each animal do we have?

9. Twice a number, increased by five is thirteen. What is the number?
(Hint: solve for x : $2x + 5 = 13$)

7. I am four years younger than my sister and she is two years older than 50, how old am I?

10. Use the numbers 1,2,3,4,5,6,7,8, and 9 each once to make the sum of each row, each column, and each diagonal equal to 15.

Magic Square		
2		6
	5	
4		8

V. Practice

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13

14

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