

# Study Guide – Calculator Inactive

Name: \_\_\_\_\_

**Directions:** The following questions are sample items similar to those found on the EOC Exam. Answer each to the best of your ability.



1.  $x = \frac{w + y + z}{5}; \quad y$

A)  $y = x - w - z - 5$

C)  $y = 5x + w + z$

B)  $y = 5x - w - z$

D)  $y = 5x - 5w - 5z$

2. Solve  $23 + 3x = -2(x - 9)$

a.  $\{-1\}$

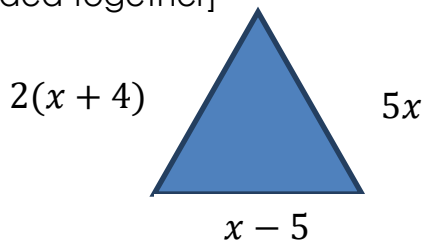
b.  $\{1\}$

c.  $\{\frac{-32}{3}\}$

d.  $\{3\}$

3. Which expression gives the perimeter of the figure below in simplified form?

[P= all sides added together]



a.  $8x - 1$

b.  $8x + 3$

c.  $7x - 1$

d.  $6x - 5$

4. Simplify  $2(x - 1) + 5(2x + 9)$

a.  $4x - 43$

b.  $12x + 43$

c.  $5x + 45$

d.  $7x + 43$

5.

Katie and Jennifer are playing a game.

2.

- Katie and Jennifer each started with 100 points.
- At the end of each turn, Katie's points doubled.
- At the end of each turn, Jennifer's points increased by 200.

At the start of which turn will Katie first have more points than Jennifer?

-	/	/	/	/	
.	.	.	.	.	
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9