### **SAT Practice**

02-13-2018

#### **SAT Think Pair Share Intructions**

- You have 90 seconds to independently think about each
- · Answer the questions in bellwork/SAT prep of your notebook.
- · You DO NOT have to write down the question, just your answer (Ppt will be on the blog)
- After the timer is up, share your answer with your elbow partner. If you did not have the same answer, you should try to convince each other before you share your white board answer with the class.
- Numbers will be picked randomly for students to come up on the board and share their work/Thinking Process with the class.

### SAT Practice Question 1 NC

Which of the following equations represents a line that is parallel to the line with equation y

A.) 
$$4x - 2y = 6$$
  
B.)  $2x - y = 5$ 



D.) 
$$1x + 2y = 4$$

# SAT Practice Question 2 NC

The line y = (k)x + 6, where k is a constant, is graphed in the xy-plane. If the line contains the point (f, g), where  $f \neq 0$  and  $g \neq 0$ , what is the slope of the line in terms of f and g?

A.) 
$$\frac{6-1}{g}$$
B.) 
$$\frac{g-6}{f}$$

$$\frac{g-6}{f}$$

$$\frac{f-6}{g}$$

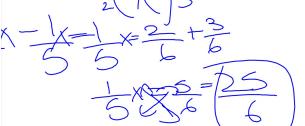
$$\frac{6-g}{g}$$

$$\frac{g-6}{f}$$

$$\frac{f-6}{g}$$

# SAT Practice Question 3 NC

what is the value of x?



# SAT Practice Question 4 NC

For  $i = \sqrt{-1}$ , what is the sum (9 + 6i) + (-12 + 8i)

B.) 
$$21 + 14i$$

# SAT Practice Question 5 NC

 $(2x^2y(-4y^2) + 6xy^2) - (-x^2y + 2xy^2 - 5y^2)$ Which of the following is equivalent to the expression above?

A.) 
$$8x^2y^2$$

B.) 
$$3x^2y + y^2 + 4xy^2$$

C.) 
$$3x^2y - 9y^2 + 8xy^2$$

D.) 
$$-5x^2y^2 + y^2$$

#### SAT Practice Question 6 NC

If 
$$\frac{a}{b} = 4$$
, what is the value of  $\frac{7b}{a}$ ?



# SAT Practice Question 7 Calc

If y = kx, where k is a constant, and y = 18 when x = 6, what is the value of y when x = 2?

$$\begin{array}{c|c} A.) & 6 \\ B.) & 12 & 3 & 8 = 6 \\ \end{array}$$

$$y=18$$
  $x=63$   $y=6$   $x=3$ 

# SAT Practice Question 8 Calc

For what value of n is |n-2|+2 equal to 0?

- A.) 0
- B.) 2
- C.) 4
- D.) There is no such value of n.

# SAT Practice Question 9 Calc

Which of the following numbers is NOT a solution of the inequality 21x + 4 > -4x + 58?

- a.) 2.16
- b.) 2.17
- 2.18 c.)
- d.) 2.19

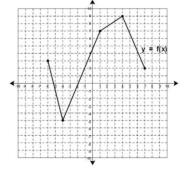
# SAT Practice Question 10 Calc

$$h = -4.9t^2 + 25.4t$$

The equation above expresses the approximate height h, in meters, of a ball t seconds after it is launched vertically upward from the ground with an initial velocity of 25.4 meters per second. After approximately how many seconds will the ball hit the ground?

- 3.5
- B.) 4.0
- 4.5 C.)
- D.) 5.0

# SAT Practice Question 11 Calc



function f is shown in the xyplane above. For what value of x is the value of f(x) at its

SAT Practice Question 12 Calc

What is the slope

of line t?

# SAT Practice Question 13 Calc



Some values of the linear function f are shown in the table above. Which of the following

# SAT Practice Question 14 Calc

$$\frac{1}{3}y = 6$$

$$x - \frac{1}{4}y = 2$$

What is the value of x?

- B.) 5
- C.) 6.5
- D.) 7.5

# SAT Practice Question 15 Calc

If  $\frac{3}{4}m = \frac{5}{8}$ , what is the value of m?

- A.)  $\frac{5}{6}$ B.)  $\frac{15}{32}$
- C.)  $\frac{6}{5}$ D.)  $\frac{32}{15}$