

## Algebra EOC Review ANSWERS

### SECTION #1

- C
- A.  $34.25 = 1.5c + 23.75$   
B. 7 cans
- $z = \frac{4}{3}(w + y)$  is just one possibility
- $c = \sqrt{\frac{e}{m}}$
- A. Step 2  
B.  $x = 1$
- $x = \frac{10}{c}$
- $0.05f + 20 \geq 65$
- $k \leq -36$
- A
- C
- 5 t-shirts
- B
- $x = -\frac{134}{3}$

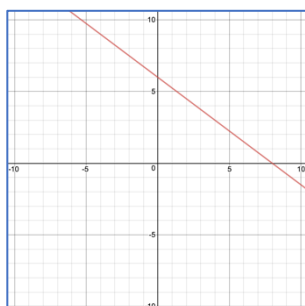
### SECTION #2

- C
- Domain:  $\{-7, -6, -2, 3, 8\}$   
Range:  $\{-3, -2, 4, 5\}$   
The relation is a function
- A. B  
B. 8  
C.  $-5 \leq x \leq 15$
- Choose any of the 6 points that are shown on the graph. Most common:  $(-2, 4)$  and  $(-1, 2)$  and  $(0, 1)$

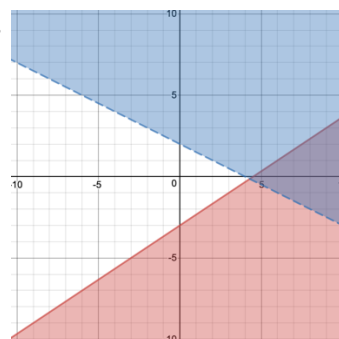
- A.  $2x + 2.5y = 50$   
B. no

- A.

B.  $-\frac{3}{4}$



- D
- C
- $f(x) = g(x) - 1$
- C
- A
- D
- $y = -10x + 200$  is just one possibility
- C
- 4
- A.



- Any point is fine as long as it falls within the boundaries given in the double-shaded region at the right side of the graph above
- The numbers are 56 and 99
- B

### SECTION #3

- $2x^2 + 6x + 7$
- A
- B
- D
- $(-2, -1)$  and  $(3, 4)$
- $x = 5$
- $f(x) = 657 \cdot 0.992^x$
- A
- A. Vertex:  $(1, -4)$   
B. Zeroes:  $(-1, 0)$  and  $(3, 0)$   
C. The graph has a minimum  
D. Increasing:  $1 < x < \infty$   
E. Decreasing:  $-\infty < x < 1$
- D
- C