

Name _____ Block _____ Date _____

COMMON ASSESSMENT #1 (Practice)

FOR MULTIPLE CHOICE QUESTIONS, WRITE YOUR ANSWER ON THE SCANTRON.

_____ 1) What is the slope of the line passing through the points A(-3,9) and B(-5,-5)

A. $-\frac{1}{2}$

B. 7

C. $\frac{1}{7}$

D. -2

_____ 2) Solve the equation: $9 - 11x = 25 - 3x$

A. 2

B. -2

C. $\frac{8}{7}$

D. $\frac{16}{3}$

_____ 3) Solve the equation: $3(6 - x) = 9x + 7$

A. $\frac{12}{11}$

B. -5

C. 5

D. $\frac{11}{12}$

_____ 4) Given that $y = -7 - 3x$, find the value of x when y = 4?

A. $-\frac{11}{3}$

B. -19

C. 5

D. 5.5

_____ 5) Solve the inequality: $6x - 9 > 7 - x$

A. $x < 16/7$

B. $x > 16/7$

C. $x > 16/5$

D. $x < 16/5$

_____ 6) In music, Emory has test scores of 97, 77, 89, and 79 on the first 4 of 5 tests. What score does Emory need on the fifth test to have a mean score of 81?

A. 81

B. 90.6

C. 63

D. 88

_____ 7) The following are the scores of 36 students on a recent algebra test. If Laura got a 84 on the test, what percentile would that score represent?

47	57	62	72	84	45
47	90	59	95	74	74
69	63	63	45	48	47
52	74	71	50	92	60
87	53	56	95	94	82
90	54	50	72	66	83

A. 77.8

B. 80.6

C. 36

D. 66

_____ 8) Find quartile one, the median and quartile three of the following data set.
 {5, 11, 17, 18, 21, 22, 28, 31, 39, 39, 41}

- A. 24.7, 22, 39 B. 11, 21, 30 C. 17, 22, 39 D. 13, 24, 37

_____ 9) Solve the equation: $|7 - 5x| = 9$

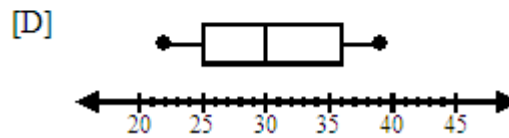
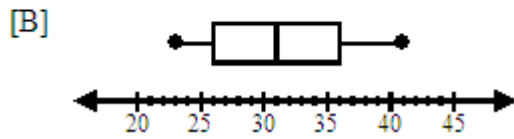
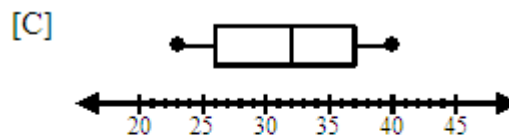
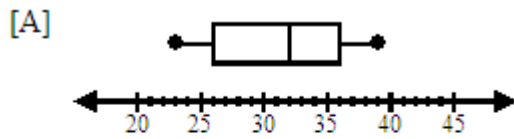
- A. 9 B. 9, -9 C. $-2/5, 16/5$ D. $-2/5, -16/5$

_____ 10) Which is the correct recursive formula for the sequence 2, -6, 18, -48, ...

- A. $u_1=2 \quad u_n = -0.33(u_{n-1}), n \geq 2$ B. $u_1=2 \quad u_n = -3(u_{n-1}), n \geq 2$
 C. $u_1=-48 \quad u_n = -4(u_{n-1}), n \geq 2$ D. $u_1=-48 \quad u_n = -0.25(u_{n-1}), n \geq 2$

_____ 11) Which is a box plot for the following data?

{28, 30, 22, 39, 28, 25, 36, 39, 31, 32, 38, 23, 25, 23, 28, 35, 36}



_____ 12) Write the slope intercept formula for the sequence defined by the following recursive formula. $u_0 = -15 \quad u_n = u_{n-1} + 3, n \geq 1$

- A. $y = -15 + 3x$ B. $y = 3 + 15x$
 C. $y = -15 - x$ D. $y = -15 - 3x$

_____ 13) Rewrite the equation in slope intercept form: $8x - 3y = 11$

- A. $3y = 8x - 11$ B. $y = \frac{8}{3}x - \frac{11}{3}$ C. $y = \frac{11}{3}x + \frac{8}{3}$ D. $y = -\frac{11}{5} + \frac{7}{5}x$

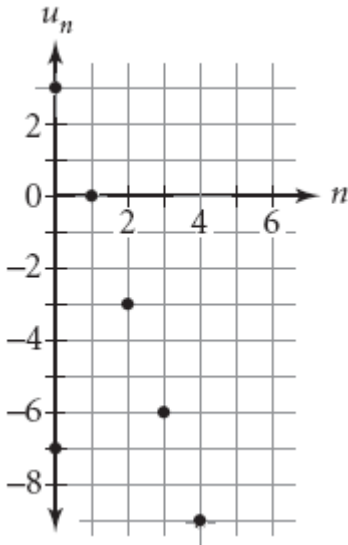
_____ 14) A line passes through the point $(-3, 7)$ and has slope $-\frac{11}{3}$. Find another point on the line.

- A. $(-37, 9)$ B. $(-2, 5)$ C. $(6, -26)$ D. $(-3, 10)$

_____ 15) Evaluate $12x - 3x^2$ when $x = -8$

- A. -288 B. -96 C. -8 D. 18

16) Consider the graph below.



a) Write the recursive formula that generates the points on the graph.

b) Find the value of u_{13}

c) What is the common difference (d)?

d) What is the value of u_0 ?

e) What is the slope of the line through the points?

f) What is the value of the y-intercept?

g) Write a linear equation in intercept form for the line that passes through the points.

