High School Foundations of Algebra (GSE)  
Midterm Day 1 Review

1. The difference of 3 from a number.

A. -3n

B. n - 3

C. 3 - n

D. -3(n)

2. Which of the following shows the numbers in order from least to greatest:

A. 0.004, 0.6, 0.07, 0.32

B. 0.32, 0.004, 0.07, 0.6

C. 0.004, 0.07, 0.6, 0.32

D. 0.004, 0.07, 0.32, 0.6

3. Which property is demostrated by the following:  
a(b + c) = ab + ac

A. Communtative Property

B. Associative Property

C. Identity Property

D. Distributive Property

4. Which of the following represents the associative property:

A. 1(x) = x

B. x + y + z = z + y + x

C. (x + y) + z = x + (y + z)

D. x(y + z) = xy + xz

5. Which equation illustrates the communtative property:

A. 1(p) = p

B. p + 0 = p

C. pq = qp

D. p(q + r) = pq + r

6. What are the term(s), coefficient, and constant described as the following as the following expression:   
"the cost of 6 pizzas, c being the cost of each pizza, and a delivery charge of $5 is represented by 6c + 5 "

A. terms: 6c and 5 B. terms: 6c and 5 C. terms: 11c D. terms: 6c  
coefficient: 6 coefficient: 5 coefficient: 11 coefficient: 6  
constant: 5 constant: 6 constant: none constant: 5

7. Choose the expression that matches the following: "twice a number less than nine"

A. 7 - x

B. x - 7

C. 2x - 9

D. 9 - 2x

8. Mark borrowed $125 from his Dad to pay some bills. If he has already paid his dad back $30, how much does he still owe him? (let a = amount owed)

A. a + 125 = 30

B. a + 30 = 125

C. a - 30 = 125

D. a - 125 = 30

9. Which numbers represent solutions to the inequality below? CHECK ALL THAT APPLY  
  
4(2c - 3) < 11c + 30

A. -17

B. -16

C. -15

D. -14

E. -13

10. Which is the solution 5 - 2(x - 3) = - 21?

A. - 16

B. - 15

C. 16

D. 15

11. Find the solution to:  
  
1 - 5(b + 3) = b - (b - 1)

A. 0

B. 3

C. - 3

D. no solution

12. Solve:  
  
2k - 5 + 6k = 2 + 5k - 1

A. 2

B. 1

C. 3

D. 5

13. Solve 10y + 7 - 4y = - 5 + 6y + 22  
  
Identify how many solutions for this equation.

A. no solution

B. one solution

C. infinitely many solutions

14. -2(6v + 8) = -112

A. v = 8

B. v = 10

C. v = -16

D. v = -8

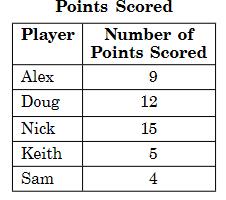
15. A company makes 5 blue cars for every 3 white cars it makes. If the company makes 15 white cars in one day. How many blue cars will it make?

A. 9

B. 13

C. 17

D. 25

16.   
The table above shows the number of points that each player on a basketball team scored in his last game.  
  
What percent of the total number of points did Alex score?

A. 9%

B. 20%

C. 25%

D. 45%

17.   
Which ratio is correct to the number of apples to the number of peppers in the refrigator?

A. 1/4

B. 1/2

C. 3/4

D. 3/1

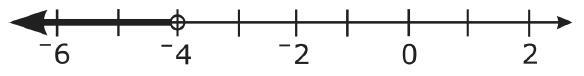
18. If , then x is equal to



A. B. C. D.

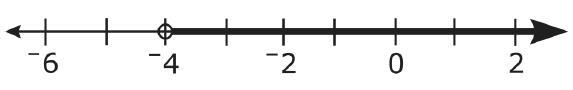
19. Which choice is a graph of the solution set for



A. 

B. 

C. 

D. 

20. Orange Theory has more 5 more than 3 times as many bicycles as LA Fitness. Together they have 21 bicycles.  
  
Solve the equation x+3x+5=21 to find the number of bicycles at Orange Theory.

A. 4 bicycles

B. 17 bicycles

C. 7 bicycles

D. 25 bicycles