ALC Liberal Arts Math

Unit 3

1. The result of dividing two numbers

 a. numerator

 b. polynomial

 c. quotient

 d. fraction

2. Any part of a whole

 a. denominator

 b. expression

 c. fraction

 d. real numbers

3. The set of all rational and irrational numbers

 a. denominator

 b. expression

 c. fraction

 d. real numbers

4. If you divide a numerator and a denominator by a common factor to

write a fraction in lowest terms or before multiplying fractions, you are \_\_\_\_\_\_\_\_\_\_.

 a. cancelling

 b. cross multiplication

 c. equivalent

 d. factor

5. Numbers, variables, products, or quotients in an expression are called \_\_\_\_\_\_.

 a. integers

 b. product

 c. simplify an expression

 d. terms

6. A \_\_\_\_\_\_is a number or expression that divides evenly into another number.

 a. cancelling

 b. cross multiplication

 c. equivalent

 d. factor

7. When you multiply numbers together, the result is called the \_\_\_\_\_\_\_\_\_\_.

 a. integers

 b. product

 c. simplify an expression

 d. terms

8. To find a missing numerator or denominator in equivalent fractions or ratios, you can use a method called \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and make the cross products equal.

 a. cancelling

 b. cross multiplication

 c. equivalent

 d. factor

9. Simply the following expression $\frac{5b-10}{b-2}$

 a. 5

 b. 1

 c. -5

 d. $\frac{5}{b-2}$

10. Simply the following expression $\frac{9x+3}{9}$

 a. 3x + 1

 b. 9x

 c. $\frac{3x+1}{3}$

 d. $\frac{9x+1}{3}$

11. Simply the following expression $\frac{6a-9}{10a-15}$

 a. 2a

 b. $\frac{3a}{15}$

 c. $\frac{3}{5}$

 d. $\frac{1}{5}$

12. Simply the following expression $\frac{6x^{2}+2}{9x^{2}+3}$

 a. 1

 b. $\frac{8}{12}$

 c. $\frac{12}{27}$

 d. $\frac{2}{3}$

13. Simply the following expression $\frac{x^{2}-16}{x+4}$

 a. x - 4

 b. 1

 c. 2

 b. x + 4

14. Simply the following expression $\frac{b^{2}-2b-3}{b-3}$

 a. 1

 b. b + 1

 c. b – 1

 d. b – 3

15. Solve the following equation 3x – 7 = 17

 a. x = 8

 b. x = 3.33

 c. x = 7

 d. x = -8

16. Solve the following equation $\frac{x}{6}=1.5$

 a. x = -9

 b. x = 9

 c. x = 3

 d. x = 7.5

17. Solve the following equation 5(x – 4) = 20

 a. x = 8

 b. x = 0

 c. x = -8

 d. x = 2

18. Solve the following equation 5x – 3 = 2x +18

 a. x = 4

 b. x = 0

 c. x = 7

 d. x = 3

19. Solve the following equation 4(x – 2) = -3(x + 5)

 a. x = 1

 b. x = 15

 c. x = 0

 d. x = -1

20. Solve the following equation $-\frac{1}{2}+\frac{8x}{5}= -\frac{7}{8}$

 a. x = 1

 b. x = 15

 c. x = 0

 d. x = -1