Algebra Foundations Quiz #12 Week 5 Monday   Name_____

SHOW ALL WORK to receive full credit.

Evaluate. (1 point each)

1. $3^5 =$

2. $-5^3 =$

3. $(-4)^4 =$

4. $6^2 - 3^4 =$

5. $45^0 =$

Use the exponent laws to answer each problem. (2 points each)

6. $\dfrac{x^6}{x^{-4}} =$

7. $(x^{-2})^4 =$

8. $x^2 \cdot x^{-7} =$

9. $\dfrac{x^3}{x^{11}} =$

Simplify the following expressions using positive and negative integers. (1 point each)

10. $5 - (-11) =$

11. $-7 - 10 =$

12. $8 - 19 - (-4) =$

Solve the following equation. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (3 points each)

13. $12 - 3(2x - 6) = 4x$

14. $2(3x + 1) = 2(x + 5) + 10$

22 points

Fractions: Perform the indicated operation. Answers must be left as <u>proper</u> fractions or mixed numbers. Answers must be reduced to lowest terms. (1 point each)

15. $6\frac{1}{4} \cdot 9\frac{3}{5} =$

16. $4\frac{2}{5} \div 2\frac{2}{3} =$

17. $\frac{5}{12} - \frac{1}{12} =$

18. $4\frac{1}{9} + 2\frac{8}{9} =$

19. $\frac{7}{12} + \frac{1}{2} =$

20. $5\frac{3}{10} - 3\frac{3}{4} =$

Change from <u>scientfic notation</u> to <u>standard notation</u>. (3 points each)

21. $8.98 \times 10^7 =$ _____

Change from <u>standard notation</u> to <u>scientific notation</u>. (3 points each)

22. $0.000023 =$ _____

Give the ordered pairs of each point. (2 point each)

23. A_____   24. B_____

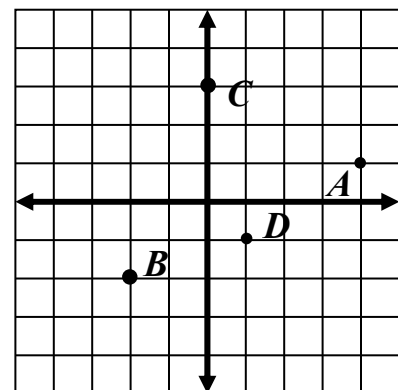25. C_____   26. D_____

Graph and label each of the following ordered pairs on the grid to the right. (2 point each)

27. $E(-1, -4)$ 28. $F(2, -3)$

29. $G(-4, 0)$ 30. $H(0, 1)$

Use for problems
23 – 30

28 points

Algebra Foundations Quiz #13 Week 5 Tuesday   Name_____

SHOW ALL WORK to receive full credit.

Evaluate. (1 point each)

1. $5^2 =$

2. $-6^4 =$

3. $(-3)^6 =$

4. $9^2 - 4^3 =$

5. $88^0 =$

Simplify the exponents. (2 points each)

6. $\dfrac{x^7}{x^{-6}} =$

7. $(x^{-4})^5 =$

8. $x^3 \cdot x^{-5} =$

9. $\dfrac{x^5}{x^7} =$

Simplify the following expressions using positive and negative integers. (1 point each)

10. $8 - (-16) =$

11. $-14 - 3 =$

12. $15 - 11 - (-6) =$

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (3 points each)

13. $3(2x - 6) - 36 = -3x$

14. $-5(2x - 4) + 11 = 3(x + 1) + 2$

22 points

Fractions: Perform the indicated operation. Answers must be left as <u>proper</u> fractions or mixed numbers. Answers must be reduced to lowest terms. (1 point each)

15. $\dfrac{10}{11} \cdot \dfrac{33}{15} =$

16. $2\dfrac{1}{3} \div 3\dfrac{4}{5} =$

17. $\dfrac{7}{9} - \dfrac{4}{9} =$

18. $8\dfrac{1}{4} + 5\dfrac{3}{4} =$

19. $7\dfrac{3}{7} - 2\dfrac{2}{3} =$

20. $\dfrac{3}{8} + \dfrac{11}{16} =$

Change from <u>scientfic notation</u> to <u>standard notation</u>. (3 points each)

21. $1.84 \times 10^{-7} = $ _____

Change from <u>standard notation</u> to <u>scientific notation</u>. (3 points each)

22. $204,000 = $ _____

Give the ordered pairs of each point. (2 point each)

23. A_____   24. B_____
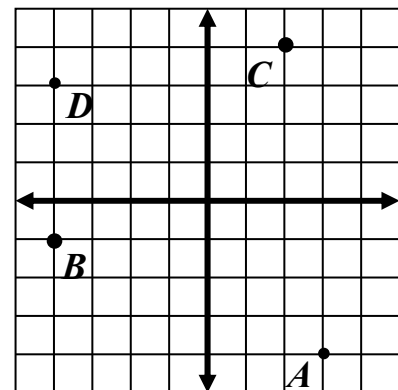
25. C_____   26. D_____

Graph and label each of the following ordered pairs on the grid to the right. (2 point each)

27. $E(-3,-3)$ 28. $F(1,-5)$

29. $G(-2,0)$ 30. $H(0,5)$

Use for problems
23 – 30

28 points

Algebra Foundations Quiz #14 Week 5 Friday   Name_____

SHOW ALL WORK to receive full credit.

Evaluate. (1 point each)

1. $2^5 =$

2. $(-3)^3 =$

3. $-3^2 - 4 =$

4. $8^0 + 5^2 =$

5. $-3 + (-12) =$

6. $-3 - (-8) =$

Simplify the exponents. (2 points each)

7. $(x^3)^{-2} =$

8. $x^4 \cdot x^{-8} =$

9. $\dfrac{x^{10}}{x^4} =$

10. $(x^{-6})^{-4} =$

11. $x^{12} \cdot x^{-15} =$

12. $\dfrac{x^{-3}}{x^5} =$

Fractions: Perform the indicated operation. Answers must be left as <u>proper</u> fractions or mixed numbers. Answers must be reduced to lowest terms. (1 point each)

13. $3\frac{3}{4} \cdot \frac{8}{25} =$

14. $4\frac{1}{3} - 2\frac{5}{6} =$

15. $\frac{9}{10} + \frac{3}{4} =$

16. $\frac{8}{9} \div 12 =$

Solve the following equations. Fraction answers must be reduced to lowest terms, but may be left as either improper fractions or mixed numbers. (4 points each)

17. $\dfrac{-10}{-5x-1} = \dfrac{5}{3x-1}$

18. $4 - 3x - (-2) = 6x$

30 points

Give the ordered pairs of each point. (1 point each)
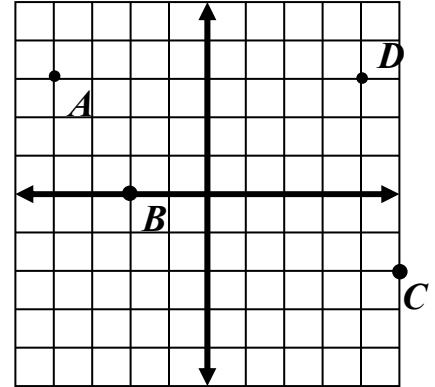
19. A_____   20. B_____

21. C_____   22. D_____

**Graph and label each of the following
ordered pairs on the grid to the right. (1 point each)**

23. $E(-2,-3)$ 24. $F(1,5)$

25. $G(0,-4)$ 26. $H(2,0)$

Use for problems
19 – 26

Complete the domain-range table, and graph the line. (12 points)

27.

x	$y = 2x + 1$	y
-4		
-3		
-2		
-1		
0		
1		
2		
3		
4		

20 points