

End of Semester Exam REVIEW – Chapter 1 – 4

Name: \_\_\_\_\_ Period : \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ 1. What is the absolute value?  $|-15|$

\_\_\_\_\_ 2. Solve.  $-2 + 7 + (-6)$

\_\_\_\_\_ 3. When  $a = -10$  and  $b = -6$ , which expression has a value of  $-4$ ?

- a.  $a + b$
- b.  $|a + b|$
- c.  $a - b$
- d.  $|a - b|$

\_\_\_\_\_ 4. The temperature is  $-8^{\circ}\text{F}$  at 7am. During the next 3 hours, it increases  $20^{\circ}\text{F}$ . What is the temperature at 10am?

\_\_\_\_\_ 5. Solve.  $-5 - 13$

\_\_\_\_\_ 6. Solve.  $16 - 28$

\_\_\_\_\_ 7. Solve.  $-14 - 8$

\_\_\_\_\_ 8. Solve for b.  $9b + 15 = 57$

\_\_\_\_\_ 9. What makes a graph proportional?

\_\_\_\_\_ 10. Evaluate the expression.  $0.7^2 \div |9.7 - 6.2|$

\_\_\_\_\_ 11. Solve.  $-8 \cdot 5$

\_\_\_\_\_ 12.  $-4 \cdot (-13)$

\_\_\_\_\_ 13.  $\frac{3}{4} \cdot \frac{-1}{6}$

\_\_\_\_\_ 14. Solve.  $-24 \div -4$

\_\_\_\_\_ 15. Solve.  $\frac{3}{4} \div \frac{1}{4}$

\_\_\_\_\_ 16. Write the rational number as a decimal.  $\frac{8}{9}$

\_\_\_\_\_ 17. Write the rational number as a decimal.  $\frac{-4}{12}$

\_\_\_\_\_ 18. Write the decimal as a fraction.  $0.35$

\_\_\_\_\_ 19. Find the sum.  $-2\frac{1}{3} + 3\frac{2}{3}$

\_\_\_\_\_ 20. Find the sum.  $2x + y$  when  $x = \frac{1}{4}$  and  $y = \frac{-1}{2}$

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\_\_\_\_ 21. Complete the statement using  $<$ ,  $>$ , or  $=$ .  $-7.08$  \_\_\_\_  $-7.09$

- a.  $<$       b.  $=$       c.  $>$

\_\_\_\_ 22. Complete the statement using  $<$ ,  $>$ , or  $=$ .  $1.5$  \_\_\_\_  $\frac{2}{3}$

- a.  $>$       b.  $=$       c.  $<$

\_\_\_\_ 23. Solve.  $0.15 + 5.8$

\_\_\_\_ 24. “Flipping” the fraction upside down is called what?

- a. Additive inverse                      c. Inverse  
b. Reciprocal                              d. Multiplying the fraction

\_\_\_\_ 25. Simplify the expression. (Combine like terms.)  $5u - 2u + 8$

\_\_\_\_ 26. Simplify the expression. (Combine like terms.)  $(2b - 4) - (-5b + 9)$

\_\_\_\_ 27. Solve the equation.  $-7 = x - 21$

\_\_\_\_ 28. Solve.  $-\frac{1}{3}c = 5$

\_\_\_\_ 29. Solve.  $2t = -12$

\_\_\_\_ 30. A 2-month membership to the gym costs \$125. Jim would like to be a member for 8 months. What is the total amount he will pay?

\_\_\_\_ 31. There are 400 people at a play. The ratio of males to females is 1 : 4. Find the number of females.

\_\_\_\_ 32. Solve and graph the inequality.  $x - 5 > 11$

\_\_\_\_ 33. Solve and graph the inequality.  $\frac{b}{4} > -12$

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\_\_\_\_ 34. Solve and graph the inequality.  $5c \leq -30$

\_\_\_\_ 35. Write the ratio as a fraction in simplest form. 27 even: 15 odd

\_\_\_\_ 36. Find the unit rate. 380 miles in 4 hours

\_\_\_\_ 37. Solve for y.  $-7(y - 4) = -32$

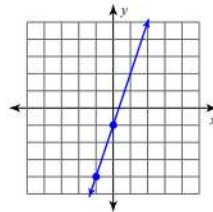
\_\_\_\_ 38. Solve the proportion.  $\frac{7}{5} = \frac{a}{15}$

\_\_\_\_ 39. Solve the proportion.  $\frac{d}{8} = \frac{73}{4}$

\_\_\_\_ 40. Write and proportion and solve.

48 cupcakes are packaged in 4 boxes. How many cupcakes are packaged in 9 boxes?

\_\_\_\_ 41. Find the constant of proportionality from the graph.



\_\_\_\_ 42. Simplify. Write your answer using exponents.  $3^3 \cdot 3^1$

x	y
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\_\_\_\_ 43. Find the constant from the table given.

-3	-15
-4	-20
3	15
1	5

\_\_\_\_ 44. Write the product using exponents.  $4 \cdot 4 \cdot 5 \cdot 5 \cdot 5$

\_\_\_\_ 45. Simplify using the distributive property.  $7x - 6(-4x + 2)$

\_\_\_\_ 46. Tell whether the rates are equivalent. 4 inches to 2.5 years

1 foot in 7.5 years

\_\_\_\_ 47. You have \$60 to buy t-shirts. You can buy 3 t-shirts for \$24. Do you have enough money to buy 7 t-shirts?

\_\_\_\_ 48. The distance from zero on a number line and the answer is always positive

- a. Opposite number
- b. Absolute value
- c. Distributive Property
- d. Reciprocal

\_\_\_\_ 49. Evaluate.  $12^2$

\_\_\_\_ 50. The table shows the relationship between the number of miles traveled, and the gallons of gas used, y. Write an equation that best represents the relationship.

x	5	10	15	20	25
y	1	2	3	4	5