Cumulative Test



- 1. (so) Graph the inequality x > -2.5
- 6. (39) $\frac{xy}{a} \left(\frac{xyz}{b} + 3ax b^2 \right)$
- (33) A bag contains 3 red marbles and 3 blue marbles. Find the probability of drawing a red marble, keeping it, and probability as a fraction in simplest form. drawing another red marble. Write the
 - 7. (40) $(8x^3y^5)^2$
- (48) Find the mean, median, and mode of the values in the data set below, rounded to the nearest whole.
- 8. (38) Factor $3a^2b^5 3a^4b^3$ completely.

42, 44, 38, 44, 57, 39, 44, 39, 41

9. (41) Find the slope of the line below.

expression $\frac{(a+2)(a-3)}{}$

is undefined



the expression $\frac{y}{2}$.

(2) Identify the factors and coefficients in

10. (44) Determine the slope of the line that contains the points (1, 5) and (9, 3).

Simplify problems 5-7.

(46)

 $\sqrt{\frac{36}{49}}$

14. (37) Write 0.0056 in scientific notation.

15. (24) Write the first 4 terms of an arithmetic sequence where $a_1 = -4$ and the common difference d = 5.

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Cumulative Test

continued

16. (28) Car rental company A charges \$12.00

per day plus \$0.25 per mile. Car rental

company B charges \$21.00 plus \$0.10 per mile. For what number of miles is the

cost per day the same?



11. (49) The equation y = -2x + 1 is in slopecoordinate grid. intercept form. Graph y = -2x + 1 on a

12. (47) A bookstore marks up the price of paperbacks they purchase at \$6.00 each by 60%. What is the markup and new price of each paperback?

has 27 students. How many men and

how many women are in the class?

13. (43) Determine the value for which the 17. (31) The ratio of men to women in an exercise class is 4:5. In all, the class

18. (Inv. 3) Owners of a furniture store want to They survey every tenth person who What is a possible bias for this survey? enters and buys something at the store know what people think of their store.

19. (45) Write the inequality 20 > 6 + x in

Statement value of each statement. Inverse is Identify Statement 2 as the converse contrapositive, or contradiction of

Statement 1: If a figur it has four sides.

square, then

it does not have four sides. Statement 2: If a figure is a square,

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