Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Trimester 3 - Cumulative Review

Numeric Response

Use the Cross Products Property to solve the proportion.

1. $\frac{33}{21} = \frac{22}{m}$

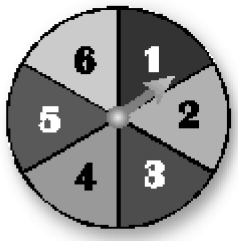
Write the decimal as a percent.

2. 1.35

Write the percent as a decimal.

3. 32.3%

You spin the spinner twice. Find the probability of the event.



4. Spinning a 3 then a 4

5. Spinning a 2 then a number greater than 2

You randomly choose one marble from the jar. Find the theoretical probability of the event.

6. Choosing a green marble

7. *Not* choosing a red marble

You toss two dimes 24 times and record the results. Use the table to find the experimental probability of the event.

Outcome	Frequency
head and head	4
head and tail	15
tail and tail	5

8. Tossing one head and one tail

9. *Not* tossing two heads

10. A store sells nine types of cell phones. There are four colors of each type. How many different options does a customer have when buying a cell phone at the store?

Short Answer

Simplify the expression.

1. $12x + 9 - 3x - 4$

Find the sum or difference.

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

3. $(2m + 7) - (3 - 4m)$

Solve the equation. Check your solution.

4. $b - 6 = -11$

5. $8 = q + 15$

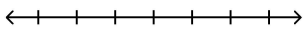
6. $\frac{n}{-5} = 7$

7. $17 = -7z + 3$

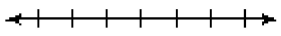
8. $-7 = \frac{z}{2} + 1$

Solve the inequality. Graph the solution.

9. $c - 2.8 \geq -0.3$



10. $3t - 1 < 8$



Write the word sentence as an inequality.

11. A number x divided by –1 is at least –4

Tell whether the given value is a solution of the inequality.

12. $x - 2 \geq -1.6; x = 0.8$

Write the ratio as a fraction in simplest form.

13. 24 players : 3 teams

Tell whether the ratios form a proportion.

14. $\frac{11}{12}, \frac{33}{36}$

Tell whether the two rates form a proportion.

15. 25 cars in 5 days; 60 cars in 12 days

Solve the proportion.

16. $\frac{33}{p} = \frac{3}{28}$

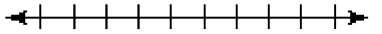
17. $\frac{w}{84} = \frac{5}{7}$

Find the unit rate.

18. 240 kilometers in 2.5 hours

Use a number line to order the numbers from least to greatest.

19. 26.2, 262%, $2\frac{3}{5}$



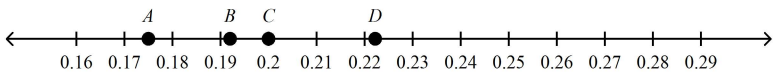
20. The percent of students that voted for a class trip is shown.

Amusement Park	Museum	Circus
47%	8%	29%

a. Write the percents as decimals.
b. Write the percents as fractions.
c. What percent of the students voted for a different class trip?

Tell which letter shows the graph of the number.

21. 19.2%, $\frac{2}{9}$, 0.175, $\frac{1}{5}$

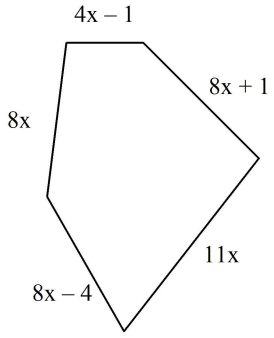


22. The numbers of points scored in each basketball game are 49, 36, 61, 64, 39, 41, 43, and 39.
    a. Make a box-and-whisker plot for the data.

    b. In what percent of the games were at least 55 points scored?
    c. Are the data more spread out below the first quartile or above the third quartile? Explain
    d. Find and interpret the interquartile range of the data.

Write an expression in simplest form that represents the perimeter of the polygon.

23.



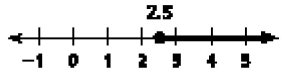
Trimester 3 - Cumulative Review
Answer Section

NUMERIC RESPONSE

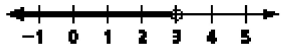
1. 14
2. 135%
3. 0.323
4. 1/36
5. 1/9
6. 1/6
7. 2/3
8. 5/8
9. 5/6
10. 36

SHORT ANSWER

1. $9x + 5$
2. $-x - 4$
3. $6m + 4$
4. $b = -5$
5. $q = -7$
6. $n = -35$
7. $z = -2$
8. $z = -16$
9. $c \geq 2.5$

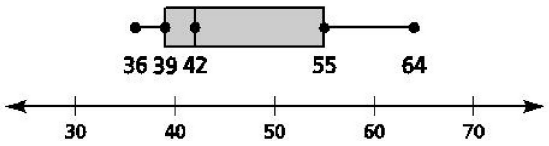


10. $t < 3$;



11. $x \div (-1) \geq -4$
12. yes
13. $\frac{8 \text{ players}}{1 \text{ team}}$
14. yes
15. yes
16. $p = 308$
17. $w = 60$
18. 96 kilometers per hour
19. $2\frac{3}{5}$, 262%, 26.2

20. a. 0.47; 0.08; 0.29
    b. $\frac{47}{100}$; $\frac{2}{25}$; $\frac{29}{100}$
    c. 16%
21. 19.2%: *B*, $\frac{2}{9}$: *D*, 0.175: *A*, $\frac{1}{5}$: *C*
22. a.



    b. 25%
    c. above; The whisker for the fourth quartile is longer than the whisker for the first quartile.
    d. 16; The middle half of the points scored vary by no more than 16 points.
23. $39x - 4$