

2nd Review for Test 1-2
 (Ordering, MAD, Forming Equations/Inequalities, Solving & Modeling Equations)

1. Circle all the numbers that are less than -0.80?

$\frac{13}{16}$	$-\frac{15}{16}$	-60%	85%	-0.95,
0.77,	$-1\frac{1}{5}$,	$-\sqrt{2}$,	-2π ,	$2\frac{1}{16}$

2. Bill completed $\frac{1}{10}$ of the test. Kiersten completed 9% of the test. AJ completed 0.05 of the test, and Philip completed $\frac{3}{8}$ of the test. Write the following students in order from least to greatest by the amount completed?
- _____

3. Write the Water Levels in descending order.

Month	Water Level (ft)
March	-1.15
June	.30
September	-1.10
December	- 0.09

4. Which equation has a solution greater than 7?

- A. $\frac{3x}{4} = 6$
 B. $23x + 9 = 4x + 66$
 C. $-x - 5 = 1 - 3x$
 D. $18 + x = 6x - 13$

- #5-11—Find the value of each variable.

5. $5c + 17 = 15c - 143$ $C =$ _____
 6. $2h + 3h - 5 = 31$ $h =$ _____
 7. $3x - 10 = 29$ $X =$ _____
 8. $4w - 3 = 2w + 9$ $W =$ _____
 9. $\frac{x}{5} - 2\frac{1}{3} = 24$ $X =$ _____
 10. $-6x - 2\frac{1}{5} = 35$ $X =$ _____
 11. On Saturday, Greg and his 2 friends cut lawns to earn some money. Together they earned \$12 an hour for 8 hours of work. They split their earnings equally. If Greg then spent \$5.00 on snacks at lunch, which equation can be used to find "g", the total amount he had left, from the money he earned that Saturday mowing lawns?

- A. $\frac{12(8)}{2} - 5 = g$ C. $\frac{12(8)}{3} - 5 = g$
 B. $\frac{12 + 5(8)}{3} = g$ D. $(\frac{12}{3} - 5) \times 8 = g$

12. Steve buys "t" concert tickets as gifts for family and friends. He gives 3 tickets to his family and equally splits the remaining tickets among his 4 friends. There were no tickets left over. Which equation can be used to find "t", the number of tickets Steve gave to each of his friends?

- A. $f = \frac{t-4}{3}$ C. $f = \frac{t-3}{4}$
 B. $f = \frac{t}{4} - 3$ D. $f = \frac{t}{4} + 3$

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13. Simon buys "p" pencils. He keeps 5 pencils and gives 2 to his teacher. He splits the remaining pencils among his 3 friends. Which equation can be used to find "p", the number of pencils he gave to each of his 5 friends?

A. $\frac{p}{3} - 5 = f$ B. $\frac{p+5}{3} = f$
 C. $\frac{p-5}{3} = f$ D. $p - \frac{5}{3} = f$

14. A car rental company charges a \$10.00 base fee plus \$0.25 per mile driven to rent a car. How many miles did a customer drive if the customer's bill was \$40.25?

(Hint: write up an equation and solve for the solution)

15. Juanita saves \$12 each week. Dan has already saved \$100 and saves \$15 each week. When will Juanita have more than money saved than Dan? Select the expression that represents the situation.

A. $12w < 100 - 12w$ B. $12w > 100 + 15w$
 C. $12w < 100 + 15w$ D. $12w + 100 < 15w$

16. Sprint charges \$45.00 a month plus 10 cents a text for cell phone services. How many text messages can you send if the bill for one month was \$75.25?

(Hint: write up an equation and solve for the solution)

17. Juanita saves \$15 each week. Dan has already saved \$100 and saves \$12 each week. When will Juanita have more money saved than Dan? Select the expression that represents the situation.

A. $15w < 100 + 12w$
 B. $15w > 100 + 12w$
 C. $15w < 112w$
 D. $15w + 100 < 12w$

18. Bus A charges \$50 plus \$0.40 a mile for renting a charter bus. Bus B charges \$35 plus \$0.55 a mile. Bus A charges greater than Bus B when traveling over 100 miles. Which inequality represents this situation?

A. $50m + 0.40 < 35 + 0.55m$
 B. $50 + 0.40m < 35 + 0.55m$
 C. $50 + 0.40m > 35 + 0.55m$
 D. $50 + 0.40m > 35m + 0.55$

19. Mike bought a book that costs \$11.95 and magazines that cost \$4.95 each. Suzie bought a book that cost \$15.79 and magazines that cost \$3.99 each. Suzie spent the less than or equal to Mike. Which inequality represents this situation?

A. $11.95 + 3.99m \leq 15.79 + 4.95m$
 B. $11.95m + 4.95 \leq 15.79m + 3.99$
 C. $11.95 + 4.95m \geq 15.79 + 3.99m$
 D. $11.95 + 4.95m \leq 15.79 + 3.99m$

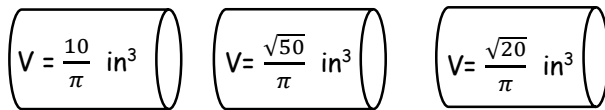
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20. What value of x makes this statement true?

$$-5x = 27 + x$$

$x =$ _____

21. The volume of 3 Cylinders are shown.



Write the Volumes from least to greatest Volume?

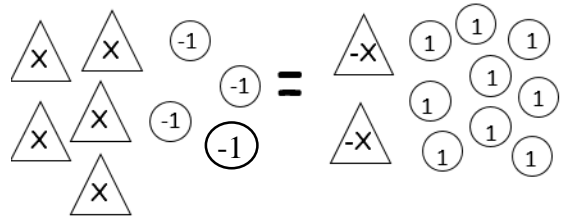
22. Find the mean absolute deviation.

30, 2, 10, 22

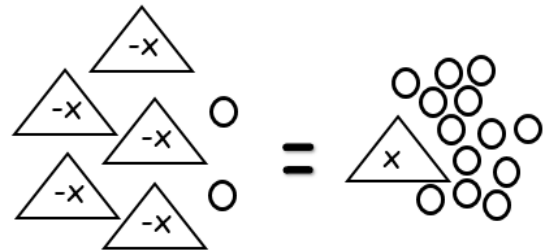
23. The table shows the number of days Mr. Rush called in sick to work during the last four years. What is the mean absolute deviation of the data?

Number of Sick Days			
5	8	2	10

24. Which is the correct equation for this model?



25. Which is the correct equation for this model?



- A. $5x + 2 = x + 13$
- B. $5x + 2 = 13$
- C. $-5x + 2 = x + 13$
- D. $-5x - 2 = x + 13$

26. What value of x makes this model true?

