

Jon said, “ $m - 1$ is always greater than $1 - m$.” Do you agree with Jon?

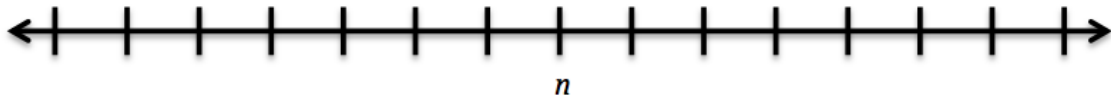
- A. Agree, because m is a positive number.
- B. Agree, because you cannot substitute a negative number for m .
- C. Disagree, because $1 - m$ is greater than $m - 1$ when m is a negative integer.
- D. Disagree, because these expressions are equivalent.

Answer _____

If $x = d + 2$ and $d + 2 + x = y$, then which of the following statements is true?

- A. $y = 2d + 4 + x$
- B. $y = 2x$
- C. $4d + 2 = y$
- D. $6d = y$

Answer _____



Put a dot on the number line and label $n - 3$.

If $d - 243 = 542$, what does $d - 245$ equal?

Answer _____

The solution to the equation $11 - x = 2(13 - 2x)$ is 5. What is the solution to the equation?

$$11 - \frac{x}{3} = 2(13 - 2(\frac{x}{3}))$$

Answer _____

If $n + 878 = 915$, what does $n + 880$ equal?

Answer _____

The equation below is true when $x = 6$:

$$x^3 + x = 222$$

What value of x will make the following equation true?

$$(2x)^3 + 2x = 222$$

Answer _____
Carl simplified $6h - h$. He said an equivalent expression was $5h$. Do you agree with Carl? A. Agree, because $6h - h$ can be factored as $h(6 - 1)$ to simplify it. B. Disagree, because h is a common term in both so $h - h$ is 0, that leaves 6. C. You cannot tell if he is correct because you do not know the value of h . D. Carl is only correct if h is a positive number. Answer _____
Bart said, " $w + 3$ is less than $5 + w$." Circle one: Always true Sometimes true Never true Explain your answer.
Van said, "The expression $y - x$ is equivalent to the expression $-(x - y)$." Do you agree with Van? A. Agree, because the negative sign in front of the parentheses means to use the Distributive Property to multiply by -1 . Then, use the Commutative Property. B. Agree, because the negative sign in front of the parentheses means to subtract everything in the parentheses, which changes the signs. Then, use the Commutative Property. C. Disagree, because the order of the variables cannot be changed with subtraction. D. Disagree, because it depends on the value of the variables. Answer _____
Sharon wrote the equation $c = 3h + 1$. The value of h is increased by 2. What is the effect on the value of c ? A. The value of c increases by 1. B. The value of c increases by 2. C. The value of c increases by 3. D. The value of c increases by 6. Answer _____
Dan challenged Amy to write an equation that has a solution of 3. Which of Amy's equations has a solution of 3? A. $4 - x = 10 - 3x$ B. $3 + x = -(x + 3)$ C. $-2x - 2 = 8$ D. $x + 2 = 3$ Answer _____
Cathy simplified $7x + 8y$ with a result of $15xy$. Do you agree with Cathy? A. Agree, because $8 + 7$ is 15 and $x + y$ is xy .

B. Agree, because 7 and x are being multiplied and 8 and y are being multiplied. The Associative Property lets you combine these terms. C. Disagree, because $x + y$ does not equal xy. D. You cannot tell if Cathy is correct because you do not know the value of x and y.	Answer _____
Jess said, " p^3 is equivalent to $3p$." Do you agree with Jess?	
A. Agree, because the exponent means to multiply by 3. B. Agree, because the exponent means to use p as an addend 3 times. C. Disagree, because the exponent means to use p as a factor 3 times. D. Disagree, because it is only true for whole numbers.	Answer _____
$B + E + M = B + R + S$	
Consider each statement below. Then, write agree (A) or disagree (D) in the blank.	
_____ This is always true if $E = R$ and $M = S$.	
_____ This is only true if the sum of $E + M = R + S$.	
_____ This is only true if B, E, M, R , and S are positive whole numbers.	
_____ This may not be true because you don't know the values of the variables.	
Sam said, " $2n + 1$ represents a greater quantity than $2(n + 1)$." Do you Agree, with Sam? \	
A. Disagree, the two expressions are equivalent because they have the same numbers and variable. B. Disagree, $2n + 1$ is less than $2(n + 1)$ because 2 is multiplying the n and the 1 in the second expression. C. Agree, $2n + 1$ is greater than $2(n + 1)$ because the 2 is multiplying the n in the first expression, not the 1. D. You cannot tell which is larger because it depends on the value of n.	Answer _____
Write a quadratic equation whose solutions are -3 and 7 .	
Answer _____	
Cupcakes cost c cents each and doughnuts cost d cents each. I buy 4 cupcakes and 3 doughnuts. What does $4c + 3d$ represent?	
A. The cupcakes and doughnuts B. The number of cupcakes and the number of doughnuts I buy C. The total number of cupcakes and doughnuts that I bought was 7 D. The total cost of the cupcakes and doughnuts	Answer _____
What is the most accurate statement about h if $12 = n + h$ and $h > n$?	
A. h can be any number greater than 6. B. $h = n = 6$ C. h can be any number greater than 5. D. You cannot tell what h is because you do not know what n is.	

Answer _____
If $h + m = 7$, what does $h + m + 7$ equal?
Answer _____