

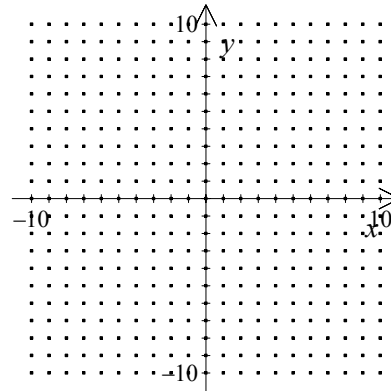
1. The average of the first 5 weights was 27 ounces. The average of the next 10 weights was 33 ounces. What was the overall average of the weights?

[1] _____

2. Add: $\frac{3}{t^2} + \frac{4s}{t+s} - \frac{2}{t}$

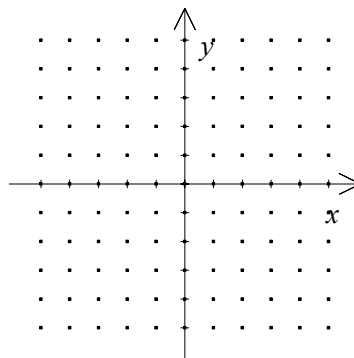
[2] _____

3. Graph: $y = -7$



[3] _____

4. Graph the ordered pair $C(2, 1)$.



[4] _____

5. Multiply: $(8x^2 - 5)^2$

[5] _____

6. Solve: $4x - 4(3x + 4) = 2x + 4$

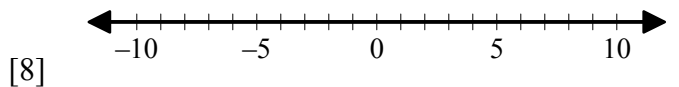
[6] _____

7. Add. Write the answer in descending order of the variable.

$$(-7x^2 - 5x^4 - 5) - (3x^4 + 5 + 3x^2)$$

[7] _____

8. Graph: $-5 < x \leq 5$

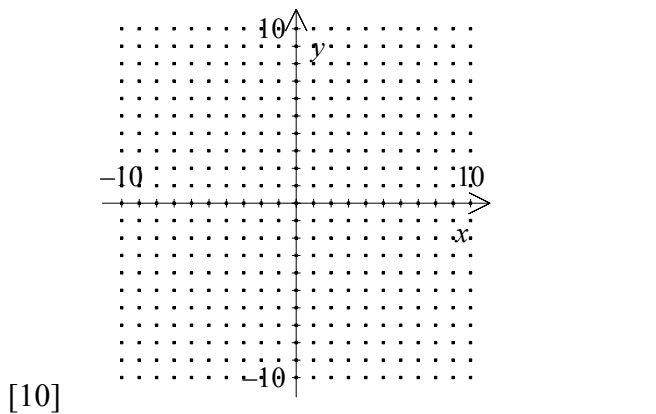


9. Find the range, mean, median, and mode of the following numbers:

58, 61, 44, 73, 63, 63, 63, 63

[9] _____

10. Graph: $y = -x + 1$



11. Expand by using the distributive property: $\frac{x^3}{z^2} \left(\frac{3y}{x^3} - \frac{2x^2}{y} \right)$

[11] _____

12. Evaluate: $bc - 3c$ if $b = -3$ and $c = -2$.

[12] _____

13. Add: $\frac{-4y+3x}{4x^4y^5} - \frac{-7y+5x}{4x^4y^5}$

[13] _____

14. Solve for u . $4u - w = u + 4w$

[14] _____

15. If $6x + 6 - 3x - 4 = 17$, what is the value of $9x + 4$?

[15] _____

16. Solve: $3x - 4 = 8$

[16] _____

17. Simplify by adding like terms. Write the answer with all exponents positive.

$$-\frac{2x^4y^2z}{z^{-2}} - \frac{x^5z^3}{xy^{-2}} + \frac{4x^4yz^2}{y^{-1}z^{-1}} - \frac{5x^4y^2z}{z^{-2}}$$

[17] _____

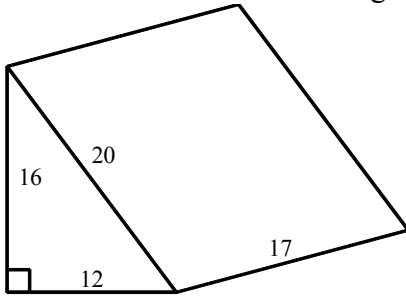
18. Simplify. Write the answer with all variables in the numerator. $\frac{x^{-4}x^4yz^{-6}}{z^{-2}z^{-2}y^{-1}}$

[18] _____

19. The ratio of good guys to bad guys was 10 to 7. If there were 147 bad guys, how many good guys were there?

[19] _____

20. Find the surface area of this right triangular prism. Dimensions are in yards.



[20] _____

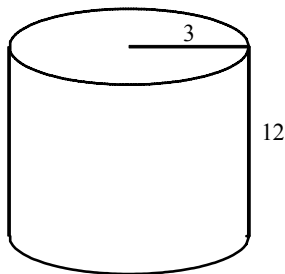
21. Factor the greatest common factor of $12v^3w^3x^2 - 9v^4w^2x + 6v^2wx^3$.

[21] _____

22. Expand by using the distributive property: $v^2w(5vw^2 - 2v^2w)$

[22] _____

23. Find the volume of the right circular cylinder. Dimensions are in feet.



[23] _____

Bonus!!!

24. Simplify. Write the answer with all positive exponents. $\frac{-27xy^{-2}(x)^{-2}y^7x^2y^{-4}}{(-3x^0)^2x^5y^{-2}(3x^2y)^0}$

[24] _____