

Solving Equations

Name _____

Solve each of the following

1. $f + (-17) = -10$

1. _____

2. $h - (-7) = 22$

2. _____

3. $9\frac{3}{4} - g = -3\frac{2}{5}$

3. _____

4. $2\frac{2}{3}f = -2\frac{4}{9}$

4. _____

5. $\frac{-4}{5}z = -20$

5. _____

6. $7g + 5 = 29$

6. _____

7. $11 = \frac{w}{3} + 2$

7. _____

8. $-5 = \frac{c}{9} + 7$

8. _____

$$9. \frac{5-3d}{2} = 7$$

9. _____

$$10. \frac{2h-11}{5} = -3$$

10. _____

$$11. \frac{3}{9}(81m+72) - 7m = 32$$

11. _____

$$12. \frac{3}{11}(55a-33) + 8 = -5$$

12. _____

$$13. 5(b+4) - 6b = -24$$

13. _____

$$14. 4(2a-8) = \frac{1}{7}(49a+70)$$

14. _____

15. $-3k + 5(6 - k) = 4(1 - 2k)$

15. _____

16. $\frac{4}{5}z + \frac{1}{3} = \frac{2}{3}z - \frac{3}{5}$

16. _____

17. $\frac{11h - 1}{2} = \frac{5h + 2}{3} + \frac{3h - 4}{6}$

17. _____

18. $\frac{2g - 1}{5} = \frac{4g + 5}{2} - \frac{5g - 3}{4}$

18. _____

Translate Each of The Following (DO NOT SOLVE THESE)

19. **Five** times a number, increased by **seven**, is equal to **eleven** times the number, decreased by **nine**.

15. _____

20. **Nine** times the difference of a **three** times a number and **five**, is the same as, **seven** times the number, increased by **twenty-one**.

16. _____

21. **Twenty** decreased by **four** times the sum of a **twice** a number and **three**, is the same as, **five** less than **sixteen** times the number.


17. _____

Declare the variable(s), write an equation and SOLVE the problem.

22. The sum of three consecutive odd integers is 75. Find the three **odd integers**.



23. The sum of four consecutive even integers is 68. Find the **even integers**.



Declare the variable(s), write an equation and SOLVE the problem.

24. Find four consecutive even integers so that **three** times the least, increased by **four** times the greatest, is equal to 178. Find the four **even integers**.



25. The sum of two numbers is 30. **Twice** the smaller increased by the larger is 40. Find the two numbers.



26. The difference of two numbers is **seven**. **Three** times the larger, minus the **twice** smaller is equal to 39. Find the two numbers.

27. **Twice** a number, increased by **three** times the sum of **four** times the number and eleven, is equal to, **seven** less than, **six** times the number. Find the number.

28: The attendance at a tennis match was 300 people. Student tickets cost \$3.00 and adult tickets cost \$5.00. If \$1140 was collected how many of each type of ticket was sold.

Type	Amount	Price \$	Total
Adult			
Student			
 	 	 	