Name:_____**Group:**_____

WHY DIDN'T THE PIANO WORK?

Solve each equation. Once you have the correct answer, bring it up in exchange for a letter.

1. $(x+3)\left(x-\dfrac{2}{5}\right)=0$

2. $\left(m-\dfrac{2}{5}\right)\left(m+\dfrac{3}{2}\right)=0$

3. $(4b+16)(b-6)=0$

4. $(7a-14)(a+8)=0$

5. $(2y+3)(y-9)=0$

6. $(5z-8)(3z+2)=0$

7. $(9w-2)(7w-3)=0$

8. $(8-2c)(5c+1)=0$

9. $(9-8r)(10-4r)=0$

Factor the expression by finding the greatest common factor. Once you have the correct answer, bring it up in exchange for a letter.

10. $9x^2 - 21y$

11. $4m^3 + 24m$

12. $10p^2q - 5pq^2$

13. $6x^3y + 9y^2$

14. $35a^2b^2 - 5ab$

15. $12m^2n - 8mn^2$

16. $w^4 - 2w^3 + w$

17. $-3p^4 + 15p^2 + 6p$

18. $8r^5 - 20r^4 - 12r^2$

Solve each equation. Once you have the correct answer, bring it up in exchange for a letter.

19. $12a^2 - 9a = 0$

20. $18x^2 + 12x = 0$

21. $6z^2 - 8z = 0$

22. $-28m^2 = 14m$

23. $20p^2 = -24p$

24. $100m^2 = -6m$

25. $-30r^2 = -25r$

Now that you have all 25 letters, unscramble them to answer the riddle at the top of the page!