Algebra I
8.4 Worksheet
Positive and Negative Square Roots

NAME:_____
DATE:_____ HOUR:____

Solve each quadratic equation. (Hint: each problem will have **two** solutions.) Show all your work.

1. $x^2 = 4$

$x = \pm\sqrt{4}$

$x = \pm 2$

2. $x^2 = 9$

3. $x^2 = 64$

4. $x^2 = 1$

5. $x^2 = 25$

$x = \pm\sqrt{25}$

$x = \pm 5$

6. $x^2 = 49$

7. $x^2 = 400$

8. $x^2 = 36$

9. $x^2 = 16$

10. $x^2 = 81$

11. $x^2 = 100$

12. $x^2 = 121$

13. $x^2 = 144$

14. $x^2 = 169$

15. $x^2 = 196$

16. $x^2 = 225$

17. $2x^2 = 8$

18. $\frac{3x^2}{3} = \frac{27}{3}$

$x^2 = 9$

$x = \pm\sqrt{9}$

$x = \pm 3$

19. $4x^2 = 400$

20. $-x^2 = -4$

21. $10x^2 = 40$

22. $5x^2 = 45$

23. $-7x^2 = -7$

24. $9x^2 = 81$

25. $x^2 + 1 = 5$

26. $x^2 - 7 = 9$

27. $2x^2 - 4 = 4$

28. $3x^2 - 11 = 64$

NAME _____ **WORKSHEET 177**

???? Trivia Question ????

Geography

What is the average snowfall at the South Pole for one year?

To check your answer:

- Give the square root for each value. (answer in each box)
- **Write each letter over its matching answer in the Decoder.**

1. $\sqrt{25}$ **A**	**2.** $\sqrt{16}$ **C**	**3.** $\sqrt{64}$ **E**	**4.** $\sqrt{49}$ **F**
5. $\sqrt{196}$ **G**	**6.** $\sqrt{144}$ **H**	**7.** $\sqrt{225}$ **I**	**8.** $\sqrt{169}$ **L**
9. $\sqrt{361}$ **M**	**10.** $\sqrt{576}$ **N**	**11.** $\sqrt{256}$ **O**	**12.** $\sqrt{529}$ **P**
13. $\sqrt{2.89}$ **R**	**14.** $\sqrt{1.21}$ **S**	**15.** $\sqrt{4.41}$ **T**	**16.** $\sqrt{2.56}$ **U**
17. $\sqrt{501.76}$ **V**	**18.** $\sqrt{479.61}$ **W**	**19.** $\sqrt{372.49}$ **Y**	**20.** $\sqrt{924.16}$ **E**

DECODER

2.1	12	8		1.1	16	1.6	2.1	12		23	16	13	30.4		1.7	5	1.7	8	13	19.3
14	30.4	2.1	1.1		19	16	1.7	8		2.1	12	5	24		7	15	22.4	30.4		
15	24	4	12	8	1.1		16	7		24	30.4	21.9		1.1	24	16	21.9			
15	24		5		19.3	8	5	1.7												