Date		
Duie		

Perfect Squares Chart

Standard:

MGSE8.EE.2 Use square root and cube root symbols to represent solutions to equations. Recognize that $x^2 = p$ (where p is a positive rational number and $lxl \le 25$) has 2 solutions and $x^3 = p$ (where p is a negative or positive rational number and $lxl \le 10$) has one solution. Evaluate square roots of perfect squares ≤ 625 and cube roots of perfect cubes ≥ -1000 and ≤ 1000 .

Fill in the blanks.

n (principle root)	n ² (perfect square)	$\sqrt{n^2}$ (positive square root)
1	12 = 1 • 1 = 1	$\sqrt{1} = 1$
2		
3		
5		
		√ 49 = 7
		, , , ,
	10 ² = 10 • 10 = 100	
12		
		√ 196 = 14
15		,
	16 ² = 16 • 16 = 256	
20		
	22 ² = 22 • 22 = 484	
		√ <u>625</u> = 25

Perfect Cubes Chart

principle root	n ³	3√n
	perfect cube	Positive cube root
1	1 ³ = 1×1×1 = 1	
2	2 ³ = 2×2×2 =	
	3³ = 3×3×3 =	
		∛64
5		
	6 ³ = 6×6×6 =	
7		
		³ √512
9		
10		
-1	$-1^3 = -1 \times (-1) \times (-1) = -1$	3 √-1
-4		
	$-6^3 = -6 \times (-6) \times (-6) = -216$	³√-216
-8		
		∛-1000