## 2.4 Square Roots of Rational Numbers

September 22, 2015 8:29 AM

## Square Root

- when the square root of a given # is multiplied by itself, the product is the given #

$$ex \sqrt{9} = 3$$
 because  $3x3=9$  or  $3^2$ 

List of whole # with perfect squares between 1-100

_number#	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	answer	how its solved
	71		×
Ч'	V4	2	2×2
q	19	2	3×3
16	16	Ч	4 x 4
25	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	5	5×5
16 25 36 49	125 136	6	2x2 3x3 4x4 5x5 6x6
49	149	コ	7x 7 8x8
	164	8	8×8
64 81	181	9	929
100	1100	10	10 x i0
l J	1		

$$=\frac{2}{3}\sqrt{\frac{perfect}{square}}$$

EX#2 1s 16 a perfect square?

$$= \sqrt{\frac{16}{5}} = \sqrt{\frac{4}{5}} = \frac{4}{2.23606} \times \frac{1}{3}$$

$$- vantom # 's square - not vepeating$$

Ex#3 solve for length of a square with an area of 144

$$A = 1.44$$

$$A = 0.4W$$

$$= 0.4W$$

Ex#4

(a) 
$$0.4$$
 (b)  $625$   
=  $\sqrt{04}$   
=  $0.63255$ 

NOT a perfect square

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