$$\sqrt{96}$$

**96 = 6 x 16**

**96 = 2x3x2x2x2x2**

**=4**$\sqrt{6}$

$$\sqrt{216}$$

**216 = 2x108**

**216 = 2x54x2**

**216 = 2x2x27 x2**

**216 = 2x2x3x3x3x2**

**6**$\sqrt{6}$

$$\sqrt{98}$$

**98=2x49**

**98=2x7x7**

**7**$\sqrt{2}$

$$\sqrt{18}$$

**18=2x3x3**

**3**$\sqrt{2}$

$$\sqrt{72}$$

**72=2x36**

**72=2x12x3**

**72=2x3x2x2x3**

**6**$\sqrt{2}$

$$\sqrt{144}$$

**144=12x12**

**144=3x2x2x3x2x2**

**3x2x2=12**

$$\sqrt{45}$$

**45=3x3x5**

**3**$\sqrt{5}$

$$\sqrt{175}$$

**175=5x35**

**175=5x5x7**

**5**$\sqrt{7}$

$$\sqrt{343}$$

**343=7x49**

**343=7x7x7**

**7**$\sqrt{7}$

**12=3x2x2**

**2**$\sqrt{3}$

$$10\sqrt{96}$$

**10**$\sqrt{96}$

**96=2x48**

**96=2x2x24**

**96=2x2x2x12**

**96=2x2x2x2x6**

**96=2x2x2x2x2x3**

$2$**x2**$\sqrt{6}$ **=4**$\sqrt{6}$

**40**$\sqrt{6}$

**9**$\sqrt{245}$

**245=5x49**

**245=5x7x7**

**Now, it’s your turn!**

**2006 SOL Math 7**

**2. 19 -> -7 difference is 26!**

**3. 3 1/8 is close 3 inches.**

**½ in = 3 mi**

**3 in = 18 mi**

**5.**

**9\*54 = 21\*x**

**486 = 21\*x**

**X=23**

**7. 10% = 150**

**5% = 75**

**15.**

**176 + 18 = 194**

**19.**

**26. translate horizontally -5**

**= move everything 5 units to the LEFT**

**L: (2,-2) -> (-3,-2)**

**Pythagorean Theorem**