



Equipment Room



Coach's Corner Solutions

Unit 1: Radicals Lesson 1.1

Coach's Corner – I

1. Fill in the blanks.

$\sqrt{1}$	= 1	$\sqrt{81}$	= 9
$\sqrt{4}$	= 2	$\sqrt{100}$	= 10
$\sqrt{9}$	= 3	$\sqrt{121}$	= 11
$\sqrt{16}$	= 4	$\sqrt{144}$	= 12
$\sqrt{25}$	= 5	$\sqrt{169}$	= 13
$\sqrt{36}$	= 6	$\sqrt{196}$	= 14
$\sqrt{49}$	= 7	$\sqrt{225}$	= 15
$\sqrt{64}$	= 8	$\sqrt{256}$	= 16

2. Evaluate the following radicals and round to the nearest hundredth where needed.

- a. $\sqrt{3} = 1.73$
 b. $\sqrt{1.483} = 1.22$
 c. $\sqrt{0.00025} = 0.02$
 d. $\sqrt{1600} = 40$

3. Reorder the following radicals from least to greatest.

$$\sqrt{0.143} \quad \sqrt{3} \quad \sqrt{144} \quad \sqrt{625} \quad \sqrt{471} \quad \sqrt[3]{0.001}$$

$$\sqrt[3]{0.001} = 0.1, \sqrt{0.143} = 0.37815..., \sqrt{3} = 1.73205..., \sqrt{144} = 12, \sqrt{471} = 21.70253..., \sqrt{625} = 25$$

4. Simplify.

a. $\sqrt[3]{27} = 3$

b. $\sqrt{289} = 17$

5. Find the square root of 9.869604401. What is the result related to and how or where can it be used to help in math calculations? [**Hint**: circles]

$$\sqrt{9.869604401} = 3.141592654...$$

π (pi) is a constant that is equal to the ratio of a circle's circumference to its diameter.

Please return to *Unit 1: Radicals Lesson 1.1* to continue your training.