Unit 1: Radicals Lesson 1.1

Game On!

6   1.   Express each radical in simplest mixed radical form. Show all steps to earn full marks.

   a. $\sqrt{4608}$ b. $\sqrt{1458}$

   c. $\sqrt{432}$

⑧   2.   Fill the blanks in the following chart.

Entire Radical	Show all steps	Mixed Radical
$\sqrt{150}$		
$\sqrt{1029}$		
		$4\sqrt{5}$
		$4\sqrt{3}$

(6)   3.   For the radicals $\sqrt{90}$, $\sqrt{8}$, $5\sqrt{150}$, and $\sqrt{17}$

- express each in decimal form to 3 decimal places,
- order them from least to greatest, and
- express each in simplest form (where possible) to earn full marks.

Decimal form				
Order from least to greatest				
Simplest form				

(6)   4.   Estimate the following radicals by completing the charts. Check the estimation by using a calculator and round the value of the radical to the nearest hundredth.

a. $\sqrt{90}$

$\sqrt{}$	
$\sqrt{90}$	
$\sqrt{}$	

Using a calculator, the decimal approximation of $\sqrt{90}$ =

b. $\sqrt{130}$

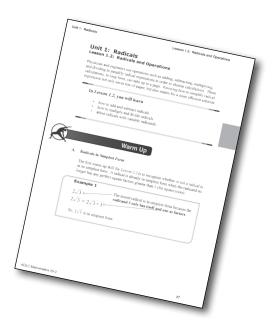|	
$\sqrt{}$	
$\sqrt{130}$	
$\sqrt{}$	

Using a calculator, the decimal approximation of $\sqrt{130}$ =

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You have completed *Lesson 1.1 Game On!*. Please return to the *Module* and continue your training with *Lesson 1.2*.