## Algebra And Number - AN2 Review

## **Outcome Checklist** In order to find success on the test, check if you can: $\square$ Identify the properties of <u>rational</u> and <u>irrational</u> numbers ☐ Determine whether a number is **rational** or **irrational** ☐ Convert an **entire radical** to a **mixed radical** in simplest form ☐ Convert a mixed radical to an entire radical ☐ Identify where a radical fits on a number line without using a calculator and why **Practice** Rational And Irrational Numbers 1. In your own words define a rational number: 2. If a **rational number** is a decimal explain its properties: 3. Identify the two defining properties of **irrational numbers**: i. ii. 4. Identify whether each number is **rational** or **irrational**, and explain why: (a) $\pi$ (c) $0.\overline{666}$ (i) 1.12345 (b) $\sqrt{2}$ (d) 1.2546 (j) $\sqrt{16}$ Radicals 1. Convert each entire radical to a mixed radical in simplest form: i. $\sqrt{98}$ ii. $\sqrt{32}$ iii. $\sqrt{128}$ iv. $\sqrt[3]{40}$ 2. Convert each mixed radical to an entire radical: iii. $8\sqrt{3}$ ii. $7\sqrt{2}$ i. $4\sqrt{5}$ iv. $3\sqrt[3]{9}$ 3. Identify where each number will fit on a number line without using a calculator: ii. $4\sqrt{5}$ iii. $3\sqrt[3]{2}$ i. $6\sqrt{2}$

For The Remainder Of Class Work On D2L Quizzes And Take Home Assignment.