

Name: *K&Y*

Proficiency Check – Section 1.2b – Irrational Numbers

Simplify the following statements

<u>Emerging</u>	<u>Proficient</u>	<u>Extending</u>
$\sqrt{44}$ $\sqrt{4} \sqrt{11}$ $2\sqrt{11}$	$\sqrt{252}$ $2 \sqrt{126}$ $2 \sqrt{63}$ $2 \cdot 3 \sqrt{7}$ $7 \cdot 9$ $3 \cdot 3$ $6\sqrt{7}$	$\sqrt{42} \cdot \sqrt{165}$ $\sqrt{6} \sqrt{7} \sqrt{5} \sqrt{35}$ $\sqrt{6} \sqrt{7} \sqrt{5} \sqrt{5} \sqrt{7}$ $7 \cdot 5 \sqrt{6}$ $35\sqrt{6}$
$\sqrt[3]{24}$ $\sqrt[3]{8} \sqrt[3]{3}$ $2\sqrt[3]{3}$	$\sqrt[3]{135}$ $5 \sqrt[3]{27}$ $3\sqrt[3]{5}$	$\sqrt[3]{42} \cdot \sqrt[3]{12} \cdot \sqrt[3]{15}$ $\sqrt[3]{6} \sqrt[3]{7} \sqrt[3]{5} \sqrt[3]{2} \sqrt[3]{3} \sqrt[3]{5}$ $6 \sqrt[3]{35}$

Write the following as Entire Radicals

<u>Emerging</u>	<u>Proficient</u>	<u>Extending</u>
$2\sqrt{15}$ $\sqrt{2 \cdot 2 \cdot 15}$ $\sqrt{60}$	$4\sqrt[3]{12} \cdot \sqrt[3]{2}$ $\sqrt[3]{4 \cdot 4 \cdot 4 \cdot 12} \cdot \sqrt[3]{2}$ $\sqrt[3]{1536}$	$-2\sqrt{34}$ <p>stays out</p> $-\sqrt{2 \cdot 2 \cdot 34}$ $-\sqrt{136}$