Geometry Name: _____

Unit Two: Post-Assessment Simplifying Radicals Practice (HW8) Date: _____ Period: _____

Rewrite the following radicals in the most simplified form.

Ex. $\sqrt{96}$

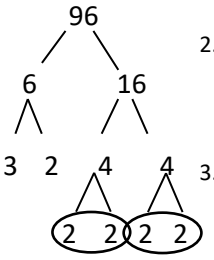
Option 1: Use the largest perfect square.

$\sqrt{96} = \sqrt{16 \cdot 6} = 4\sqrt{6}$

Rewrite 80 as a product of the largest possible perfect square and another number.

Square root the perfect square to simplify.

Option 2: Use a factor tree.



1. Circle pairs of factors.
2. One of part of each pair moves outside radical and multiplies.
3. Uncircled factors return to radical and multiply.

$2 \cdot 2\sqrt{3 \cdot 2} = 4\sqrt{6}$

a) $\sqrt{12}$

b) $\sqrt{40}$

c) $\sqrt{18}$

d) $\sqrt{75}$

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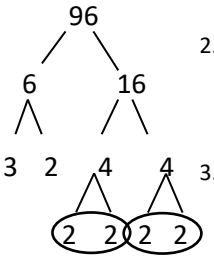

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e) $\sqrt{48}$

f) $\sqrt{128}$

g) $\sqrt{24}$

h) $\sqrt{98}$

i) $\sqrt{72}$

j) $\sqrt{540}$

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