

Semester 1 Review

Unit 4: Radicals

Name _____

1. Prime Factorization

Review- Watch the video if you don't know how to do the problem

<https://www.youtube.com/watch?v=3dxNy15PsHs>

Write the prime factorization for the following:

45

2. Simplifying Radicals

Review- Watch the video if you don't know how to do the problem

<https://www.youtube.com/watch?v=gF5AAAd025Dk>

Simplify: $\sqrt{80}$

Practice simplifying radicals online- Record your score

<https://www.quia.com/rr/628289.html>

Score: \$ _____

Work out the practice problems below

3. Adding and Subtracting Radicals

Review- Watch the video if you don't know how to do the problem

<https://www.youtube.com/watch?v=JjjEK-KObtw>

Simplify: $\sqrt{18} + \sqrt{8}$

Practice online - work out 4 problems from the computer below

<https://www.ixl.com/math/algebra-1/add-and-subtract-radical-expressions>

1)

2)

3)

4)

4. Dividing Radicals

Review- Refer to page 54 in your notebook if you don't know how to do the problem

Simplify: $\frac{\sqrt{15}}{5\sqrt{20}}$

Practice online - work out 4 problems from the computer below

<https://www.ixl.com/math/algebra-1/simplify-radical-expressions-involving-fractions>

1)

2)

3)

4)

5. Multiplying Radicals

Review- Watch the video if you don't know how to do the problem

<https://www.youtube.com/watch?v=EzjfPAeMUd0>

Simplify: $2\sqrt{6} \cdot 7\sqrt{4}$

6. Distribute Radicals

Review-Watch the video if you don't know how to do the problem

https://www.youtube.com/watch?v=pQ_a3gCTEF8

Simplify: $3\sqrt{5}(7\sqrt{2} + 4\sqrt{8})$

Practice online - work out 2 problems from the computer below

<https://www.ixl.com/math/algebra-1/simplify-radical-expressions-using-the-distributive-property>

1)

2)

Practice online - work out at least 4 problems from the computer below. Do more if time allows.

<https://www.ixl.com/math/algebra-1/simplify-radical-expressions-mixed-review>

1)

2)

3)

4)