

Algebra 1 AB
Simplifying Radical Notes

Name _____

Simplify, round to the nearest hundredth.

1) $\sqrt{25}$

2) $\sqrt{49}$

3) $\sqrt{24}$

4) $\sqrt{72}$

5) $\sqrt{80}$

6) $\sqrt{54}$

7) $\sqrt{34}$

8) $\sqrt{243}$

Sometimes it is important to leave our answers as exact as possible. This means we simplify as far as we can but do not make the answer a decimal. If you are not given key words such as *approximately*, *round to the nearest*, or *about* then you have to leave your answer in exact form.

Simplify each radical completely. Leave answers in exact form.

1) $\sqrt{25}$

2) $\sqrt{49}$

3) $\sqrt{24}$

4) $\sqrt{72}$

Simplifying Square Roots

Simplify.

1) $\sqrt{96}$

2) $\sqrt{216}$

5) $\sqrt{72}$

6) $\sqrt{144}$

9) $\sqrt{343}$

10) $\sqrt{12}$

$$13) 7\sqrt{600}$$

$$14) 5\sqrt{45}$$

$$17) 2\sqrt{36}$$

$$18) 9\sqrt{125}$$

$$21) 3\sqrt{900}$$

$$22) 7\sqrt{2535}$$

Algebra 1 AB
Simplifying Radicals and Solving Equations

Name _____

Simplify each radical. Show all work.

1. $\sqrt{63}$

2. $\sqrt{28}$

3. $\sqrt{50}$

4. $\sqrt{75}$

9. $\sqrt{120}$

10. $\sqrt{48}$

11. $\sqrt{98}$

12. $\sqrt{72}$

17. $\sqrt{68}$

18. $\sqrt{200}$

19. $\sqrt{60}$

20. $\sqrt{64}$

25. $\sqrt{16}$

26. $\sqrt{90}$

27. $\sqrt{84}$

28. $\sqrt{14}$