MODULE 3 Rational Exponents and Radicals

LESSON 3-1

Practice and Problem Solving: A/B

1. Power of a Product Property

2. Power of a Power Property

3. 4

4. 1

5. 3

6. 125

7. 32

8. 3

9. 5

10. 196

11. 0.1 or $\frac{1}{10}$

12. 48

13. 12

14. 1

15. 16

16. 2 seconds

17. $\left(16^{\frac{1}{4}}\right)^3 = \left(\sqrt[4]{16}\right)^3 = 2^3 = 8$ and $\left(16^3\right)^{\frac{1}{4}} = 4096^{\frac{1}{4}} = \sqrt[4]{4096} = 8$

18. 150 in.^{2}