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Name:_____ Period:_____Date:_____

Radicals and Rational Exponents

Section I. Write in radical format

1. $36^{\frac{1}{2}} =$ _____

2. $125^{\frac{1}{3}} =$ _____

3. $16^{\frac{1}{2}} =$ _____

4. $343^{\frac{1}{3}} =$ _____

5. $32^{\frac{1}{5}} =$ _____

6. $1000^{\frac{1}{3}} =$ _____

7. $64^{\frac{2}{3}} =$ _____

8. $216^{\frac{2}{3}} =$ _____

9. $32^{\frac{3}{5}} =$ _____

10. $64^{\frac{5}{6}} =$ _____

Section II. Write in exponential format

11. $\sqrt{121} =$ _____

12. $\sqrt[4]{625} =$ _____

13. $\sqrt{289} =$ _____

14. $\sqrt[3]{512} =$ _____

15. $\left(\sqrt[3]{512}\right)^4 =$ _____

16. $\left(\sqrt[3]{8}\right)^5 =$ _____

17. $\left(\sqrt[4]{256}\right)^3 =$ _____

18. $\left(\sqrt{9}\right)^3 =$ _____

19. $\left(\sqrt[6]{1{,}000{,}000}\right)^5 =$ _____

20. $\left(\sqrt[3]{343}\right)^2 =$ _____

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