



## Rewriting Logarithms

Name: \_\_\_\_\_

Date: \_\_\_\_\_



Rewrite each in equation in exponential form.

1)  $\log_{11} 121 = 2$

2)  $\log_9 81 = 2$

3)  $\log_7 49 = 2$

4)  $\log_6 216 = 3$

5)  $\log_{12} 144 = 2$

6)  $\log_{20} 400 = 2$

7)  $\log_5 125 = 3$

8)  $\log_3 81 = 4$

9)  $\log_2 4 = 2$

10)  $\log_2 8 = 3$

11)  $\log_4 16 = 2$

12)  $\log_2 32 = 5$

13)  $\log_{18} 324 = 2$

14)  $\log_3 27 = 3$

15)  $\log_{14} 196 = 2$

16)  $\log_3 243 = 5$

17)  $\log_{17} 289 = 2$

18)  $\log_{13} 169 = 2$

19)  $\log_5 625 = 4$

20)  $\log_6 36 = 2$

21)  $\log_{10} 100 = 2$



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## Answers



Rewrite each in equation in exponential form.

$$1) \log_{11} 121 = 2$$

$$11^2 = 121$$

$$2) \log_9 81 = 2$$

$$9^2 = 81$$

$$3) \log_7 49 = 2$$

$$7^2 = 49$$

$$4) \log_6 216 = 3$$

$$6^3 = 216$$

$$5) \log_{12} 144 = 2$$

$$12^2 = 144$$

$$6) \log_{20} 400 = 2$$

$$20^2 = 400$$

$$7) \log_5 125 = 3$$

$$5^3 = 125$$

$$8) \log_3 81 = 4$$

$$3^4 = 81$$

$$9) \log_2 4 = 2$$

$$2^2 = 4$$

$$10) \log_2 8 = 3$$

$$2^3 = 8$$

$$11) \log_4 16 = 2$$

$$4^2 = 16$$

$$12) \log_2 32 = 5$$

$$2^5 = 32$$

$$13) \log_{18} 324 = 2$$

$$18^2 = 324$$

$$14) \log_3 27 = 3$$

$$3^3 = 27$$

$$15) \log_{14} 196 = 2$$

$$14^2 = 196$$

$$16) \log_3 243 = 5$$

$$3^5 = 243$$

$$17) \log_{17} 289 = 2$$

$$17^2 = 289$$

$$18) \log_{13} 169 = 2$$

$$13^2 = 169$$

$$19) \log_5 625 = 4$$

$$5^4 = 625$$

$$20) \log_6 36 = 2$$

$$6^2 = 36$$

$$21) \log_{10} 100 = 2$$

$$10^2 = 100$$



QUIZ ?

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