Name:

Date:

Rewriting Logarithms

Rewrite each equation in exponential form.

1) $\log_{320} 35 = 0.61$

2) $\log_{7} 49 = 2$

3) $\log_{6} 36 = 2$

4) $\log_{24} 15 = 0.85$

5) $\log_{a} b = 22$

6) $\log_{y} x = -8$

7) $\log_{a} \frac{5}{8} = b$

8) $\log_{x} y = 6$

9) $\log_{12} n = m$

10) $\log_{\frac{1}{5}} v = u$

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1) $\log_{320} 35 = 0.61$

$320^{0.61} = 35$

2) $\log_{7} 49 = 2$

$7^{2} = 49$

3) $\log_{6} 36 = 2$

$6^{2} = 36$

4) $\log_{24} 15 = 0.85$

$24^{0.85} = 15$

5) $\log_{a} b = 22$

$a^{22} = b$

6) $\log_{y} x = -8$

$y^{-8} = x$

7) $\log_{a} \frac{5}{8} = b$

$a^{b} = \frac{5}{8}$

8) $\log_{x} y = 6$

$x^{6} = y$

9) $\log_{12} n = m$

$12^{m} = n$

10) $\log_{\frac{1}{5}} v = u$

$(\frac{1}{5})^{u} = v$