	NAME	DATE	PERIOD	
- 11-5	Practice			1-5
Common	Logarithms		Th	ne S
Given that log evaluate each	3 = 0.4771, log 5 = 0.6990, and logarithm.	d log 9 = 0.9542,	Bet	fore th en per: arithn
1. log 300,000 5.4771	2. log 0.0005 -3.3010	3. log 9000 3.9542	Ea	ch of t
4. log 27 1.4313	5. log 75 1.8751	6. log 81 1.9084		
Evaluate each	expression.		To sho	multip own be le rule
7. log 66.3 1.8215	8. $\log \frac{17^4}{5}$ 4.2228	9. log 7(4³)2.6513	the	e logar: ⊮—
Find the value	of each logarithm using the ch	nange of base formula.	C	
10. log ₆ 832 3.7526	11. log ₁₁ 47 1.6056	12. log ₃ 9 2	1-: Fol	 2 Se llow th
Solve each equation or inequality.				Use gr souare
13. 8 ^{<i>x</i>} = 10 1.1073	14. 2.4 ^{<i>x</i>} ≤ 20 <i>x</i> ≤ 3.4219	15. $1.8^{x-5} = 19$ 10.0795	.8	right, p whole heavy
16. $3^{5x} = 85$ 0.8088	17. $4^{2x} > 25$ x > 1.1610	18. $3^{2x-2} = 2^x$ 1.4608	2.	You wi 5-by-7 will wo in Exe a logar
 19. Seismolog, is given by a measure of area for a a. Northrid about b. Hector I about 	y The intensity of a shock wave the formula $R = \log_{10} \frac{I}{I_0}$, where of wave energy, and $I_0 = 1$. Find the following earthquakes. dge, California, in 1994, $R = 6.7$ 5,011,872 Wine, California, in 1999, $R = 7.1$ 12,589,254	re from an earthquake <i>R</i> is the magnitude, <i>I</i> is the intensity per unit	3.	strips. being of Explai 8 by 2. scale scale num the 1

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