

Formative Assessment #14 – Exponential and Logarithmic Forms

Due Date: _____

Completed: _____

RF4.2: I can convert an equation from logarithmic form to exponential form.

1. Convert the following equations to exponential form.

a) $\log_2 81 = 4$

b) $\log_{100} \frac{1}{100} = -2$

c) $\log_{\frac{2}{3}} \frac{8}{125} = 3$

RF4.3: I can convert from exponential form to logarithmic form.

2. Convert the following equations to logarithmic form.

a) $2^3 = 8$

b) $7^0 = 1$

c) $9^{-2} = \frac{1}{81}$

RF4.4: I can determine, without technology, the exact value of a logarithm.


3. Evaluate the following expressions *without using a calculator*.

a) $\log_4 64$

b) $\log_7 \frac{1}{49}$

c) $\log_{\frac{2}{3}} \frac{8}{27}$

d) $\log(-14)$

Code(s)	Learning Categories						 Assessed by:
RF4.2	EH	EL	AH	AL	NH	NL	
RF4.3	EH	EL	AH	AL	NH	NL	
RF4.4	EH	EL	AH	AL	NH	NL	
Notes							