Logarithms Worksheet   Name:_____
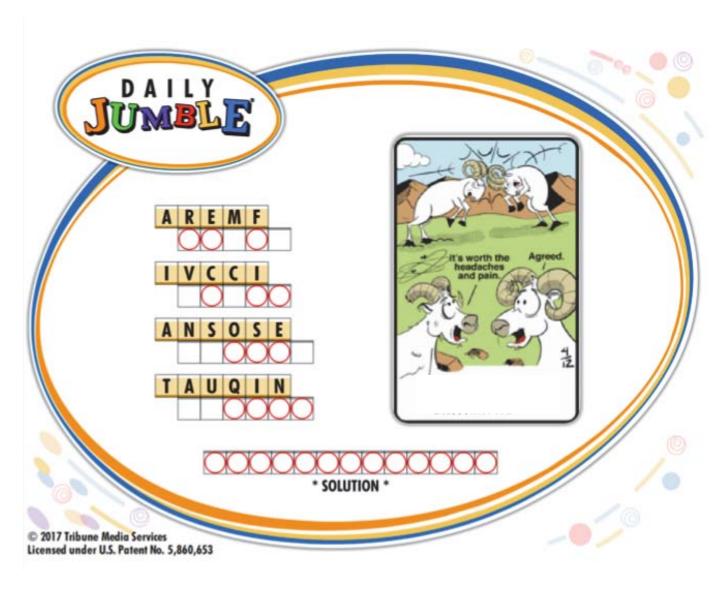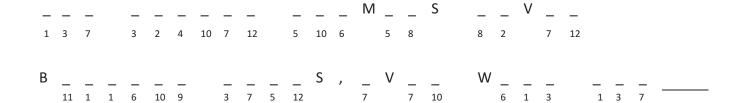
Solve the questions in Table I, and find the correspondence between a letter and a number. Use this to reveal the hint for the Jumble.

DAILY JUMBLE

A R E M F

I V C C I

A N S O S E

T A U Q I N

* SOLUTION *

Jumble Hint

_ _ _   _ _ _ _ _ _   _ _ _ M _ _ S   _ _ V _ _
1 3 7   3 2 4 10 7 12   5 10 6   5 8   8 2   7 12

B _ _ _ _ _ _   _ _ _ _ S , _ V _ _   W _ _ _   _ _ _ _____
  11 1 1 6 10 9   3 7 5 12   7   7 10   6 1 3   1 3 7

Table I

E	D
$6 + \log_6(6)$	$12 + \log_7(1)$
N	**U**
$12 + \log_2\left(\dfrac{1}{4}\right)$	$\log_{32}(x) = \dfrac{1}{5}$ ➔ U is: $x + 9$
L	**H**
$\log_4(32) + \log_4(2) + 5$	$\log_x(16) = 2$ ➔ H is: $x - 1$
A	**I**
$3^{\log_3(4)} + 1$	$\log_3\left(\sqrt{3}\right) + \dfrac{11}{2}$
R	**T**
Given $\log_{10}(10) = 1$, and $\log_{10}(2) = 0.3$, find $10 \cdot (\ \log_{10}(5)\ ) - 3$	$\log_{10}(10{,}000{,}000) - 6$
O	**G**
$\log_5(25^2 \cdot 5^3) - 5$	$\log_2(512)$