Exponents Haiku Worksheet Name:_____

Simplify each expression in Table I. Then, find the corresponding answer in Table II. This will give you a correspondence between a letter and a number. Use this correspondence to reveal the mystery Haiku.

Mystery Haiku

“ _ _ _ _ _ _ _ ,
1 2 6 9 1 8 6

_ _ _ _ _ _ _ _ _ _ _ _
15 16 1 13 14 10 3 9 5 12 8

- _ _ _ _ _ _ “
5 9 2 11 5 4

Table I

U $(2x^3)^4$	Q $\frac{x^0y^4}{3x^{-4}y^{-3}}$	R $(4yx^{-4})^2$	P $yx^3 \cdot 3x^4y^{-4}$
J $\frac{(2x^2y^2)^3}{x^{-3}y^4}$	D $\left(\frac{1}{3}x^4\right)^4$	F $\frac{(x^3)^3}{\frac{1}{2}x^{-4}y^0}$	N $(2x^3y^2)^0$
I $3x^{-3}y^3 \cdot (-4)x^0y^{-3}$	A $\frac{4x^3y^2}{\frac{1}{4}y^3x^4}$	O $(2x^0y^0)^3 \div (\frac{1}{4}x^3y^3)$	G $x^2y^{-2} \cdot y^4$
L $\frac{xy^2 \cdot 3yx^{-2} \cdot xy^{-4}}{2x^2}$	H $\left(-\frac{1}{3}x\right)^2 \cdot (3^{-1}x^3)^{-1}$	M $\frac{3y^4}{x^{-2}y^{-1}}$	S $-\frac{4x^2}{(-2x)^{-2}}$

Table II

1 $\frac{32}{x^3y^3}$	4 $\frac{1}{3x}$	5 $-16x^4$	2 $\frac{3}{2x^2y}$
13 x^2y^2	3 $3y^5x^2$	9 $\frac{3x^7}{y^3}$	6 $\frac{x^{16}}{81}$
7 $\frac{x^4y^7}{3}$	10 $16x^{12}$	8 1	15 $2x^{13}$
12 $-\frac{12}{x^3}$	11 $\frac{16}{xy}$	16 $\frac{16y^2}{x^8}$	14 $8x^9y^2$

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Mystery Haiku

“

_ _ _ _ _ _ _ ,
1 2 6 9 1 8 6

_ _ _ _ _ _ _ _ _ _ _ _
15 16 1 13 14 10 3 9 5 12 8

- _ _ _ _ _ _ “
5 9 2 11 5 4

Table I

U→10 $(2x^3)^4$	Q→7 $\frac{x^0y^4}{3x^{-4}y^{-3}}$	R→16 $(4yx^{-4})^2$	P→9 $yx^3 \cdot 3x^4y^{-4}$
J→14 $\frac{(2x^2y^2)^3}{x^{-3}y^4}$	D→6 $\left(\frac{1}{3}x^4\right)^4$	F→15 $\frac{(x^3)^3}{\frac{1}{2}x^{-4}y^0}$	N→8 $(2x^3y^2)^0$
I→12 $3x^{-3}y^3 \cdot (-4)x^0y^{-3}$	A→11 $\frac{4x^3y^2}{\frac{1}{4}y^3x^4}$	O→1 $(2x^0y^0)^3 \div (\frac{1}{4}x^3y^3)$	G→13 $x^2y^{-2} \cdot y^4$
L→2 $\frac{xy^2 \cdot 3yx^{-2} \cdot xy^{-4}}{2x^2}$	H→4 $\left(-\frac{1}{3}x\right)^2 \cdot (3^{-1}x^3)^{-1}$	M→3 $\frac{3y^4}{x^{-2}y^{-1}}$	S→5 $-\frac{4x^2}{(-2x)^{-2}}$

Table II

1→O $\frac{32}{x^3y^3}$	4→H $\frac{1}{3x}$	5→S $-16x^4$	2→L $\frac{3}{2x^2y}$
13→G x^2y^2	3→M $3y^5x^2$	9→P $\frac{3x^7}{y^3}$	6→D $\frac{x^{16}}{81}$
7→Q $\frac{x^4y^7}{3}$	10→U $16x^{12}$	8→N 1	15→F $2x^{13}$
12→I $-\frac{12}{x^3}$	11→A $\frac{16}{xy}$	16→R $\frac{16y^2}{x^8}$	14→J $8x^9y^2$