Name _____ Date _____ Period _____

8.EE.A.1 ADDITIONAL PRACTICE

Answer Key

1) Evaluate the exponent expression in the table.

3^{-3}	3^{-2}	3^{-1}	3^{0}	3^{1}	3^{2}	3^{3}
$\frac{1}{27}$	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9	27

2) $k^8 \cdot k^{-4} = ?$

k^4

3) $n^3 \cdot n^{-6} \cdot n^4 = ?$

n

4) Simplify: $6^{-4} \cdot 6^0 \cdot 6^6$

$6^2 = 36$

5) Simplify: $(\frac{2}{5})^3$

$\frac{2}{5} \cdot \frac{2}{5} \cdot \frac{2}{5} = \frac{8}{125}$

6) Simplify: $4^4 \cdot 4^{-4}$

$4^0 = 1$

7) Simplify: $(6^{-3})^3 \cdot 6^{-1}$

$6^{-10} = \frac{1}{6^{10}}$

8) Simplify: $(5^2)^2 \cdot (5^4)^{-3}$

$5^{-8} = \frac{1}{5^8}$

9) Simplify: $\frac{(4^2)^3}{4^5} \cdot \frac{5^3}{5^2}$

$4^1 \cdot 5^1 = 20$

10) Simplify: $\frac{(3^3)^4}{3^4} \cdot \frac{3^5}{3^2}$

$\frac{3^{12} \cdot 3^5}{3^6} = 3^{11}$