

8.EE.A.3 ADDITIONAL PRACTICE**Answer Key**

- 1) Write the expressions in the table in standard form.

$5 \cdot 10^{-2}$	$5 \cdot 10^{-1}$	$5 \cdot 10^0$	$5 \cdot 10^1$	$5 \cdot 10^2$
0.05	0.5	5	50	500

- 2) Rewrite 807,000 in scientific notation.
 $8.07 \cdot 10^5$

- 3) The population of Los Angeles is approximately 4 million people. What is this number expressed in scientific notation?

$$4 \cdot 10^6$$

- 4) Express 0.0306 in scientific notation.
 $3.06 \cdot 10^{-2}$

- 5) Write the size of a grain of sand, about $9.35 \cdot 10^{-3}$ cm, in standard form.

$$0.00935$$

- 6) What symbol makes the statement below true?

$$0.00423 \text{ ____ } 4.23 \cdot 10^{-4}$$

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- 7) What is the value of n in the equation:
 $1.0035 \cdot 10^n = 100,350,000$

$$8$$

- 8) For what value of n makes the equation below true?

$$7.5 \cdot 10^n = 0.00075$$

-4

- 9) How many times greater is $3 \cdot 10^4$ than $3 \cdot 10^1$?

$$1,000 \text{ times greater}$$

- 10) A number one hundred times less than $9.2 \cdot 10^{-3}$ would have an exponent of what number when expressed in scientific notation?

$$-5$$