Assessment Title: Grade 8 Module 1 Topic A Quiz

For each of the number sentences, check the appropriate box in the chart below.

	Number Sentence is True	Number Sentence is False
$-1^4 = \underbrace{(-1 \times \cdots \times -1)}_{4\text{ times}}$	○	○
$(-8)^6 = \underbrace{(-8) \times \cdots \times (-8)}_{6\text{ times}}$	○	○
$5^8 = \underbrace{(8 \times \cdots \times 8)}_{5\text{ times}}$	○	○
$\left(\frac{3}{5}\right)^5 = \underbrace{\left(\frac{3}{5} \times \cdots \times \frac{3}{5}\right)}_{5\text{ times}}$	○	○
$-\frac{1}{2}^6 = \underbrace{\left(-\frac{1}{2}\right) \times \cdots \times \left(-\frac{1}{2}\right)}_{6\text{ times}}$	○	○
$(-1)^3 = \underbrace{(-1) \times \cdots \times (-1)}_{3\text{ times}}$	○	○
$58^3 = 5 \times 8 \times 8 \times 8$	○	○

Select all answers that correctly complete the following statement.

The expression $8^4 \cdot 8^3$ is equal to $8^{\square}$ because of the first law of exponents.

- [ ] $4 + 3$
- [ ] 1
- [ ] $4 - 3$
- [ ] 7

Write an equivalent expression so that each factor has a single power. Let m, n, and p be numbers.

$(m^3 n^2 p^5)^3 = \square$

Calculate the value of the expression.

$1,284^0$

- ( ) 0
- ( ) 1
- ( ) $1,284$

5 of 6

Given the following expression, select an equivalent expression in exponential notation.

$$\frac{1}{34^{-4}}$$

- $\frac{1}{34^4}$
- $\frac{3}{4^4}$
- 34^4
- 34^{-4}

6 of 6

Drag expressions to show the steps to create an equivalent expression using only positive exponents. Let g and h be two nonzero numbers.

$$g^{-3}h = \boxed{}$$

$$= \boxed{}$$

$$= \boxed{}$$

$\frac{h}{g^3}$ | $\frac{1}{g^{-3}} \cdot h$ | $-3g \cdot h$ | $\frac{h}{g^{-3}}$ | $-3 \cdot g \cdot h$ | $\frac{1}{g^3} \cdot h$ | $g^{-3} \cdot h$ | $-3gh$