## Student:

$\qquad$

1. Select the answer that best completes the given statement.
$0 \cdot a=(1)$ $\qquad$
(1) $\bigcirc 0$

- $\frac{1}{a}$
- a

2. Select the answer that best completes the given statement.

The (1) $\qquad$ of the nonzero number $b$ is $\frac{1}{b}$.
(1)
oppositesquare root
3. Select the correct choices that complete the sentence below.
$\frac{0}{4}$ is (1) $\qquad$ while $\frac{4}{0}$ is (2)
(1)
undefined
(2)4.
$\bigcirc$
0. undefined.
4. Select the correct choices that complete the sentence below.

The fraction $-\frac{a}{b}=(1)$ $\qquad$ $=(2)$ $\qquad$
(1) $\bigcirc \frac{a}{b}$
(2) $\frac{a}{-b}$.
$\frac{-a}{b}$
$\frac{a}{b}$.
5. Select the answer that best completes the given statement.

The opposite of nonzero number a is (1) $\qquad$
(1)

- $\frac{1}{a}$.$-\frac{1}{a}$.-a .a.

6. Select the correct choice that completes the sentence below.

The reciprocal of nonzero number a is (1) $\qquad$
(1)


- a .

7. Select the answer that best completes the given statement.

The (1) $\qquad$ property has to do with "order."
(1) $\bigcirc$ commutativedistributiveassociative
8. Select the correct choice that completes the sentence below.

The (1) $\qquad$ property has to do with "grouping."
(1) $\bigcirc$ commutativeassociative
distributive
9. Evaluate.

$$
-3^{2}
$$

$-3^{2}=$ $\qquad$
10. Find the value of the expression.
$\left(-\frac{1}{10}\right)^{3}$
$\left(-\frac{1}{10}\right)^{3}=$ $\qquad$
(Simplify your answer.)
11. Choose the fraction(s) equivalent to the given fraction.
$-\frac{1}{5}$
Select all that apply.A. $\frac{1}{-5}$
B. $\frac{1}{5}$C. $\frac{-1}{5}$D. $\frac{-1}{-5}$
12. Choose the fraction(s) equivalent to the given fraction.

$$
\frac{8}{-(p+r)}
$$

Select all that apply.A. $-\frac{8}{(p+r)}$

B
$\frac{8}{(p+r)}$C. $\frac{-8}{(p+r)}$D. $\frac{-8}{-(p+r)}$
13. Choose the fraction(s) equivalent to the given fraction.

$$
\frac{-8 r}{-9 s}
$$

Select all that apply.A. $-\frac{8 r}{9 s}$B. $-8 r$
C. $\frac{8 r}{-9 s}$D. $\frac{8 r}{9 s}$
14. Evaluate $40 \div(8 \div 4)$ and $(40 \div 8) \div 4$. Use these two expressions and discuss whether division is associative.
$40 \div(8 \div 4)=$ $\qquad$ (Type an integer or a simplified fraction.)
$(40 \div 8) \div 4=$ $\qquad$ (Type an integer or a simplified fraction.)

Therefore, division (1) $\qquad$ associative.
(1) $\square$ is not

1. (1) 0
2. (1) reciprocal
3. (1) 0
(2) undefined.
4. (1) $\frac{-a}{b}$
(2) $\frac{a}{-b}$.
5. (1) -a .
6. (1) $\frac{1}{a}$.
7. (1) commutative
8. (1) associative
9. -9
10. $-\frac{1}{1000}$
11. $A . \frac{1}{-5}$, C. $\frac{-1}{5}$
12. A. $-\frac{8}{(p+r)}$, C. $\frac{-8}{(p+r)}$
13. D. $\frac{8 r}{9 s}$
14. 20
$\frac{5}{4}$
(1) is not
