## Day 3~ Exponents HW

## Student

1. Which is equivalent to $5^{-1}$ ?
A. $\frac{1}{25}$
B. $\frac{1}{5}$
C. -5
D. 4
2. Which expression is equivalent to $20^{8} \div 20^{2}$ ?
A. $4-20$
B. $6 \cdot 20$
C. $20^{4}$
D. $20^{6}$
3. Which of the following represents $\frac{1}{16} \times \frac{1}{8}$ using exponential notation?
A. $\left(2^{4}\right)\left(2^{3}\right)$
B. $\left(2^{4}\right)\left(2^{-3}\right)$
C. $\left(2^{-4}\right)\left(2^{3}\right)$
D. $\left(2^{-4}\right)\left(2^{-3}\right)$
4. What is the value of the expression $8^{-2} \times 8^{3}$ ?
A. 64
B. 8
C. $\frac{1}{8}$
D. $\frac{1}{48}$
5. If $(-3)^{5} \times(-3)^{2}=(-3)^{x}$ =what is the value of $x$ ?
A. 3
B. 7
C. 10
D. 25
6. Which of the following is equivalent to $\frac{5}{49}$ ?
A. $5\left(7^{2}\right)$
B. $\frac{1}{5\left(7^{2}\right)}$
C. $5-7^{2}$
D. $5\left(7^{-2}\right)$
7. Which of the following is equivalent to $10 \times 10^{4} \times 10^{3} \times 10^{-5}$ ?
A. $10^{2}$
B. $10^{3}$
C. $10^{7}$
D. $10^{13}$
8. Which expression is equivalent to $\frac{\left(3^{2} \times 3^{-4}\right)}{3^{2}}$ ?
A. ${ }^{-81}$
B. -12
C. $\frac{1}{12}$
D. $\frac{1}{81}$
9. Which expression is equivalent to
$5^{2} \times 5^{6} \div 5^{-3}$ ?
A. $5^{4}$
B. $5^{5}$
C. $5^{9}$
D. $5^{11}$
10. What is the value of the

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\text { expression } \frac{2^{-6}}{2^{4}} \times 2^{8} ?
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A. $\frac{1}{16}$
B. $\frac{1}{4}$
C. 4
D. 16

