

Name: _____

Pre-Algebra

Date: _____ Per: _____

Final Exam

SHOW ALL WORK NEEDED TO ANSWER EACH QUESTION. Good Luck! ☺

1. Which of the following is equivalent to the expression shown below? $9^{-8} - (-7)^8$ A. $\frac{2}{9^{-7}}$ C. $\frac{(-7)^8}{9}$ B. $(-9)^8 - (-7)^8$ D. $-(9^8 - 7^8)$	2. Which number is both a perfect square and a perfect cube number? A. 9 B. 27 C. 64 D. 125
3. Between which two consecutive numbers does the square root below lie? $-\sqrt{128}$ A. -13 and -12 B. -12 and -11 C. -11 and -10 D. -10 and -9	4. If the set below is ordered from least to greatest, which value could go in the box? $\left\{ 6^{-4}, \boxed{?}, -\frac{2}{7} \right\}$ A. 4% B. 2^{-4} C. $1 + 10^{-2}$ D. 30%
5. Which value is an integer but not a whole number? A. 75% B. $5^{-2} - 10$ C. $\sqrt{25}$ D. $-\frac{4^2}{16}$	6. Simplify the expression below. $\frac{5^2 - -16 + 2}{(3 + 2^2) \cdot 3}$ A. $-\frac{2}{27}$ C. $\frac{1+3^2}{1+6}$ B. -4 D. -20
7. If $a = -4$ and $b = \frac{6}{5}$, find the value of the expression below. $\frac{1}{6}a^3 + \frac{9}{16}b$ A. $-\frac{2}{15}$ C. $\frac{38}{15}$ B. $-\frac{22}{15}$ D. $\frac{58}{15}$	8. Which expression could be placed in the box as an example of the associative property? $8 - (m^2 \cdot n^2) = \boxed{?}$ A. $8 - (m \cdot n)^2$ C. $(8 - m^2) \cdot n^2$ B. $8m^2 \cdot 8n^2$ D. $(m^2 \cdot n^2) \cdot 8$

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