

Name _____ Date _____

Math $\frac{1}{8}$ Unit 5 Quiz Review Class _____
MORE...

Show all work on separate piece of paper. Make sure your work is organized and legible.

I. Order of operations
Simplify.

1. $3 \cdot 6 + 9 \div 3 - 6$

2. $5^2 - 8 \cdot 5 + 6$

3. $(8 - 3)(12 \div 4) - 5$

4. $(6 + 8)(8 - 3) \div (9 + 3 - 2)^2$

5. $12 \left[10 - \frac{(5^2 - 6)^3}{6} \right]$

II. Properties of Exponents

Use exponent rules to simplify the following:

6. $(cd^2)(c^3d^2)$

7. $a^2a^3a^6$

8. $(3ab^2c^2)(4a^{-3}b^2c^2)$

9. $\frac{x^{10}}{x^3}$

10. $\frac{m^3n^7}{m^3n^9}$

11. $\frac{12x^9y^3}{3x^3y^9}$

12. $\frac{15x^{-7}y^{-8}}{6x^{-5}y^4}$

13. $(16x^2y^{-4})^3$

14. $x^2(x^2y^3z^4)^2$