

Algebra 1
Assessment 14
Review

Name _____

Simplify each of the following.

1. a. $x^5 \cdot x^3$

b. $p^7 \cdot q^4 \quad p^8 \cdot q^9$

3. a. $5x^3y^2 \quad 2x^4y^5$

b. Simplify $5(7x-3) - 5(3x-4)$

5. a. $-5m^2 \quad 9m^3$

b. Evaluate $3 + x^2 - 2y$

if $x = -2, y = 3$

7. a. $16n^8 \cdot n^5$

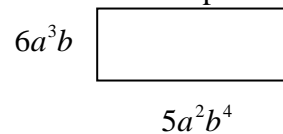
b. Write the equation of the vertical line through the point (4, -2)?

2. a. $\frac{a^{19}}{a^{10}}$

b. $-8b^2c^4 \cdot 3b^2$

4. a. $-4n^4m^5$

b. Find the area and perimeter of the rectangle.



6. a. $\left(\frac{2}{3}x^4y\right)^3$

b. $\frac{x^3y^8}{x^8y^5}$

8. a. $\frac{12a^2b^3c^4}{18a^3b^6c^2}$

b. $m^{40}m^{22}$

9. a. $3^{80} \cdot 3^{60} = ?$

b. $\left(\frac{4}{3}x^2y^{-2}\right)^2$

11. a. $-2m^4 \cdot 7m^2 \cdot 3$

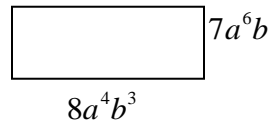
b. Write the equation of the horizontal line through the point (3, -5)?

10. a. What is the slope of the line parallel to

$$y = \frac{2}{3}x - 4 ?$$

b. $s^{-4} \cdot t^3 \cdot s^6 \cdot t^{-7}$

12. a. Find the area of the rectangle.



b. $x^{50} \cdot x^{30}$