

Name _____

Date _____

Simplify the expressions

1. $a^6 \cdot a^3$

2. $(x^5)^2$

3. $(4a^2b^3)^5$

4. $\frac{x^8}{x^6}$

5. $\frac{x^5}{x^8}$

6. $\frac{x^6}{x^6}$

7. $\left(\frac{4a^3}{2b^4}\right)^2$

8. $(2^3x^2)^5$

9. $(x^4y^7)^{-3}$

10. $\frac{x^{11}y^{10}}{x^{-3}y^{-1}}$

11. $-3x^{-4}y^0$

12. $\frac{5x^3y^9}{20x^2y^{-2}}$

$2^{15}x^{10}$

Favorite animal

1

Favorite comic book hero

a^9

Favorite singer or group

$\frac{xy^{11}}{4}$

Favorite book

x^2

Favorite food

x^{10}

My selfie

$\frac{1}{x^3}$

Favorite show

$x^{14}y^{11}$

Favorite Place

$\frac{4a^6}{b^8}$

Favorite Sport

$\frac{1}{x^{12}y^{21}}$

Favorite Subject

$4^5a^{10}b^{15}$

Favorite Holiday

$\frac{-3}{x^4}$

Favorite Hobby