

MATH CLOUDS

LAWS OF EXPONENTS

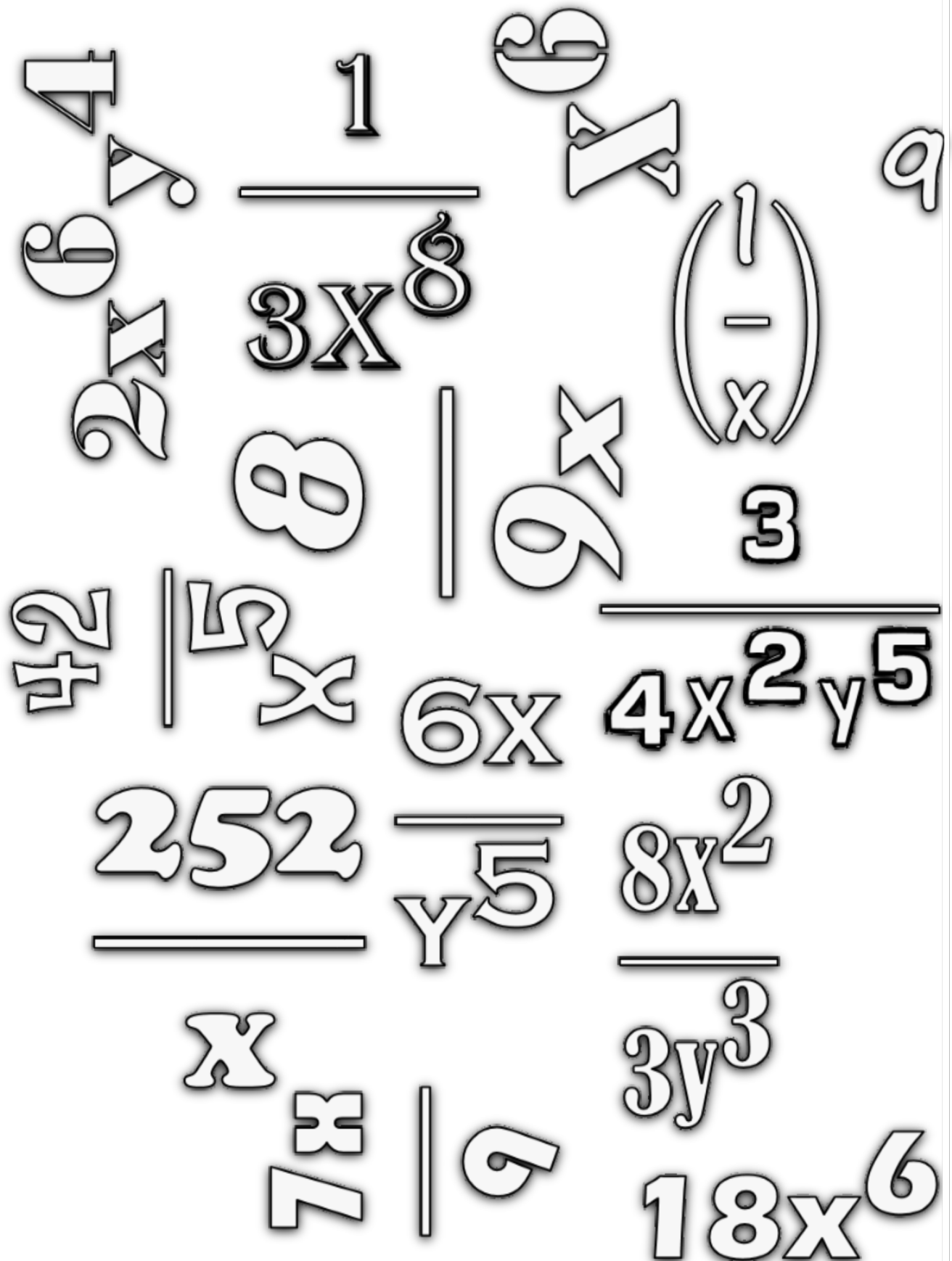


Name _____ Date _____

Laws of Exponents Math Cloud

Directions: Simplify each expression below so that all exponents are positive. Then, color your answer on your math cloud with the color given!

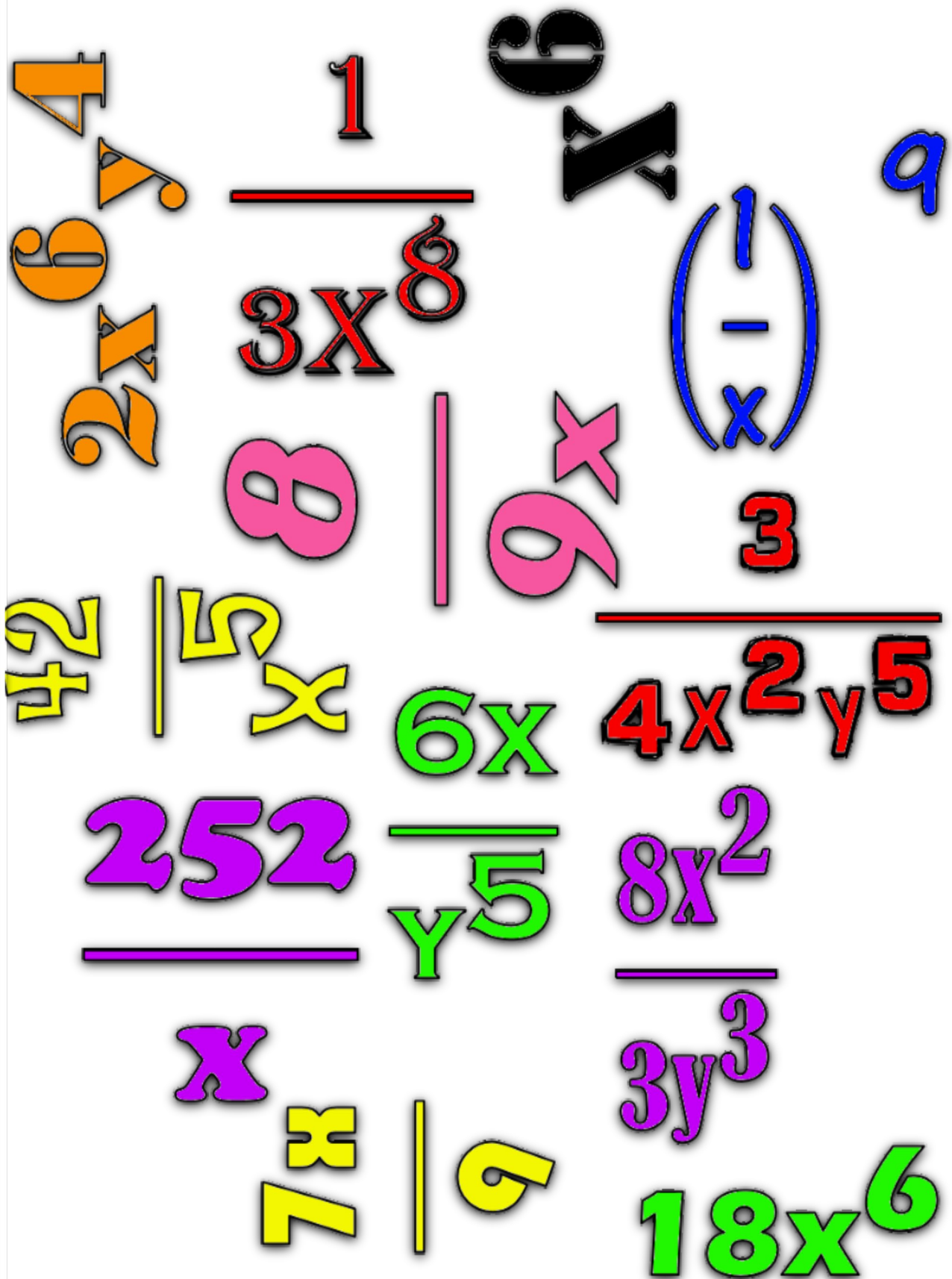
Expression	Solution	Color
1. $\frac{3x^{-3}}{9x^5}$	_____	red
2. $6x \cdot 7x^{-6}$	_____	yellow
3. $2x \cdot 9x^5$	_____	green
4. $\frac{8x^3}{9x^4}$	_____	pink
5. $\left(\frac{1}{x}\right)^4 \cdot \left(\frac{1}{x}\right)^5$	_____	blue
6. $2x^3y^{-7} \cdot 3x^{-2}y^2$	_____	green
7. $xy \cdot 2x^5y^3$	_____	orange
8. $\frac{3x^2}{4x^4y^5}$	_____	red
9. $4x^6 \cdot 9x^{-2} \cdot 7x^{-5}$	_____	purple
10. $\frac{x^2}{x^{-4}}$	_____	black
11. $\frac{7x^{-3}}{9x^{-4}}$	_____	yellow
12. $\frac{8x^6y^2}{3x^4y^5}$	_____	purple

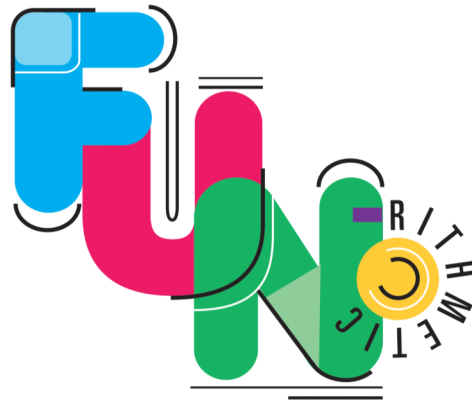


Laws of Exponents Math Cloud—Answer Key

Directions: Simplify each expression below so that all exponents are positive. Then, color your answer on your math cloud with the color given!

Expression	Solution	Color
1. $\frac{3x^{-3}}{9x^5}$	$\frac{1}{3x^8}$	red
2. $6x \cdot 7x^{-6}$	$\frac{42}{x^5}$	yellow
3. $2x \cdot 9x^5$	$18x^6$	green
4. $\frac{8x^3}{9x^4}$	$\frac{8}{9x}$	pink
5. $\left(\frac{1}{x}\right)^4 \cdot \left(\frac{1}{x}\right)^5$	$\left(\frac{1}{x}\right)^9$	blue
6. $2x^3y^{-7} \cdot 3x^{-2}y^2$	$\frac{6x}{y^5}$	green
7. $xy \cdot 2x^5y^3$	$2x^6y^4$	orange
8. $\frac{3x^2}{4x^4y^5}$	$\frac{3}{4x^2y^5}$	red
9. $4x^6 \cdot 9x^{-2} \cdot 7x^{-5}$	$\frac{252}{x}$	purple
10. $\frac{x^2}{x^{-4}}$	x^6	black
11. $\frac{7x^{-3}}{9x^{-4}}$	$\frac{7x}{9}$	yellow
12. $\frac{8x^6y^2}{3x^4y^5}$	$\frac{8x^2}{3y^3}$	purple





Thank you for your purchase!

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