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Name: _____

Multiplying and Dividing Exponents
Simplify the following expressions.

1. $\frac{a^4 z^2}{4 a z}$

2. $\frac{s^6}{s^2}$

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

4. $\frac{6 a^5}{3 y^3}$

5. $\frac{y^4}{6}$

6. $\frac{a^6}{a^3}$

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

8. $3 \cdot x^4 \cdot x^2 w^2$

9. $\frac{2 c^4 b^5}{3 c \cdot a^2}$

10. $t^4 \cdot a^4$

11. $\left(\frac{2}{6}\right)^4 \left(\frac{2}{6}\right)^2 \left(\frac{2}{6}\right)^2$

12. $wb \cdot 9 w^4 w^3$

EXPONENTS
Ideas and Activities

Exponents

Directions: Fill in the exponent chart by circling the correct answer in each box.
The first one has been done for you.

Number	Base	Exponent	Expanded Notation	Standard Notation
3^2	2 or ③	② or 3	3×2 or (	
2^4	② or 4	2 or ④	2×2×2×2 o	
7^2	2 or ⑦	② or 7	7×7 or 7	
2^3	② or 3	2 or ③	2×2×2 or	
5^2	2 or ⑤	② or 5	5×2 or 5	
3^3	2 or ③	2 or ③	3×3 or 3×	
10^3	3 or ⑩	③ or 10	3×10 or 10×	
5^3	3 or ⑤	③ or 5	or 5×	
4^3	3 or ④	③ or 4	4×4 or 4×	
	3 or ⑥	③ or	or 6×	

Exponents

$2^2 = 4$
$2^3 = 8$
$3^2 = 9$
$3^3 = 27$
$4^2 = 16$
$4^3 = 64$
$5^2 = 25$
$5^3 = 125$
$6^2 = 36$
$6^3 = 216$
$7^2 = 49$
$7^3 = 343$
$8^2 = 64$
$8^3 = 512$
$9^2 = 81$
$9^3 = 729$
$10^2 = 100$

Exponent Rules

The Product Rule for Exponents
(Multiplying Like Bases With Exponents)
When you multiply like bases you add your exponents.
$$x^n \cdot x^m = x^{n+m}$$
$$2^3 \cdot 2^5 = 2^{3+5} = 2^8$$
$$w^2 \cdot w^3 = w^5$$

Quotient Rule for Exponents
(Dividing Like Bases With Exponents)
When you divide like bases you subtract their exponents.
$$a^m \div a^n = a^{m-n}$$
$$7^5 \div 7^2 = 7^{5-2} = 7^3$$
$$2^2 \div 2^5 = 2^{2-5} = 2^{-3} = \frac{1}{2^3} = \frac{1}{8}$$

Power of a Power Rule for Exponents
**(Base Raised to Two Exponents)**
When you raise a base to two exponents, you multiply those exponents together.
$$\left(a^m\right)^n = a^{m \times n}$$
$$\left(a^5\right)^2 = a^{5 \times 2} = a^{10}$$
$$\left(2^2\right)^{-3} = 2^{2 \times -3} = 2^{-6} = \frac{1}{2^6} = \frac{1}{64}$$
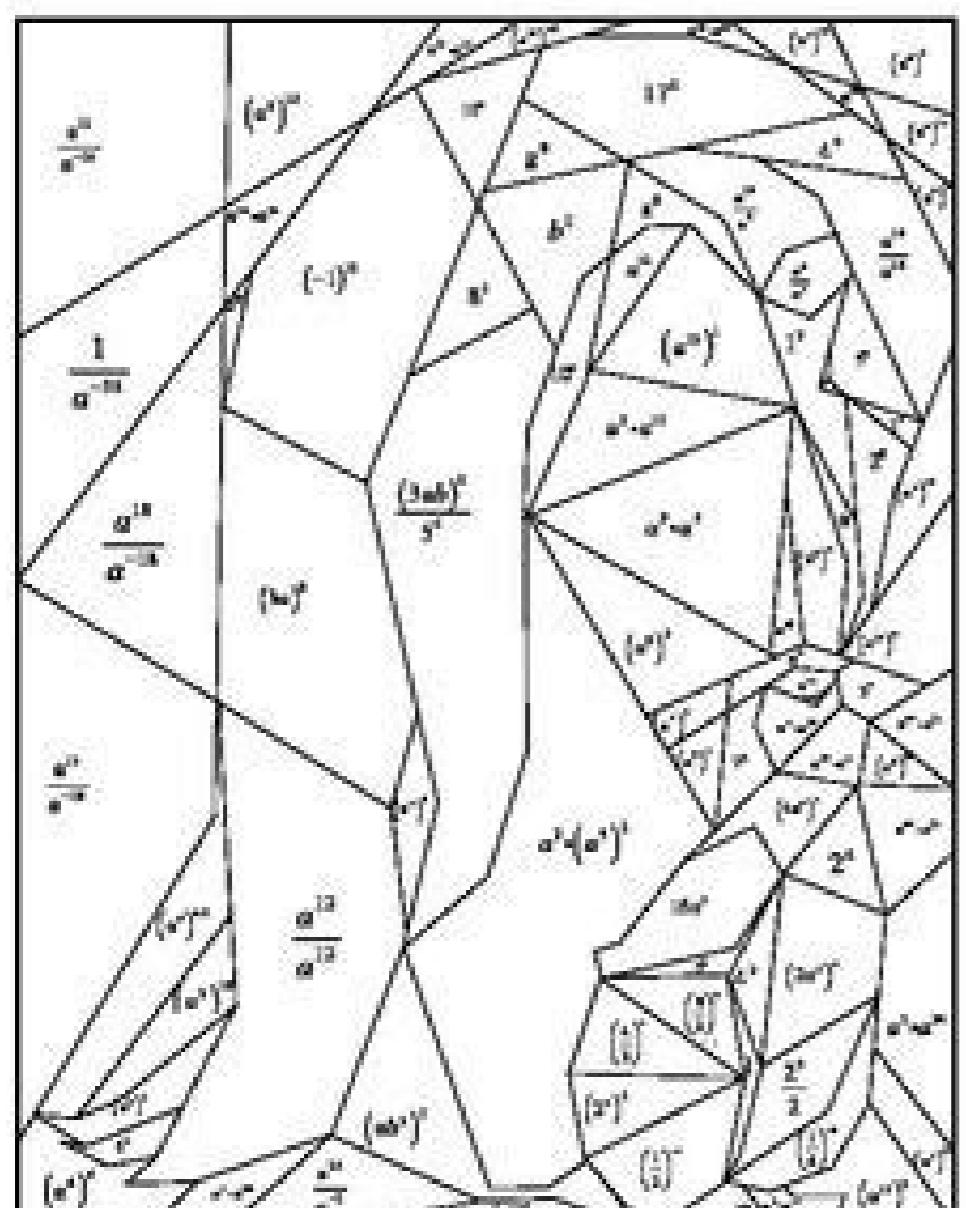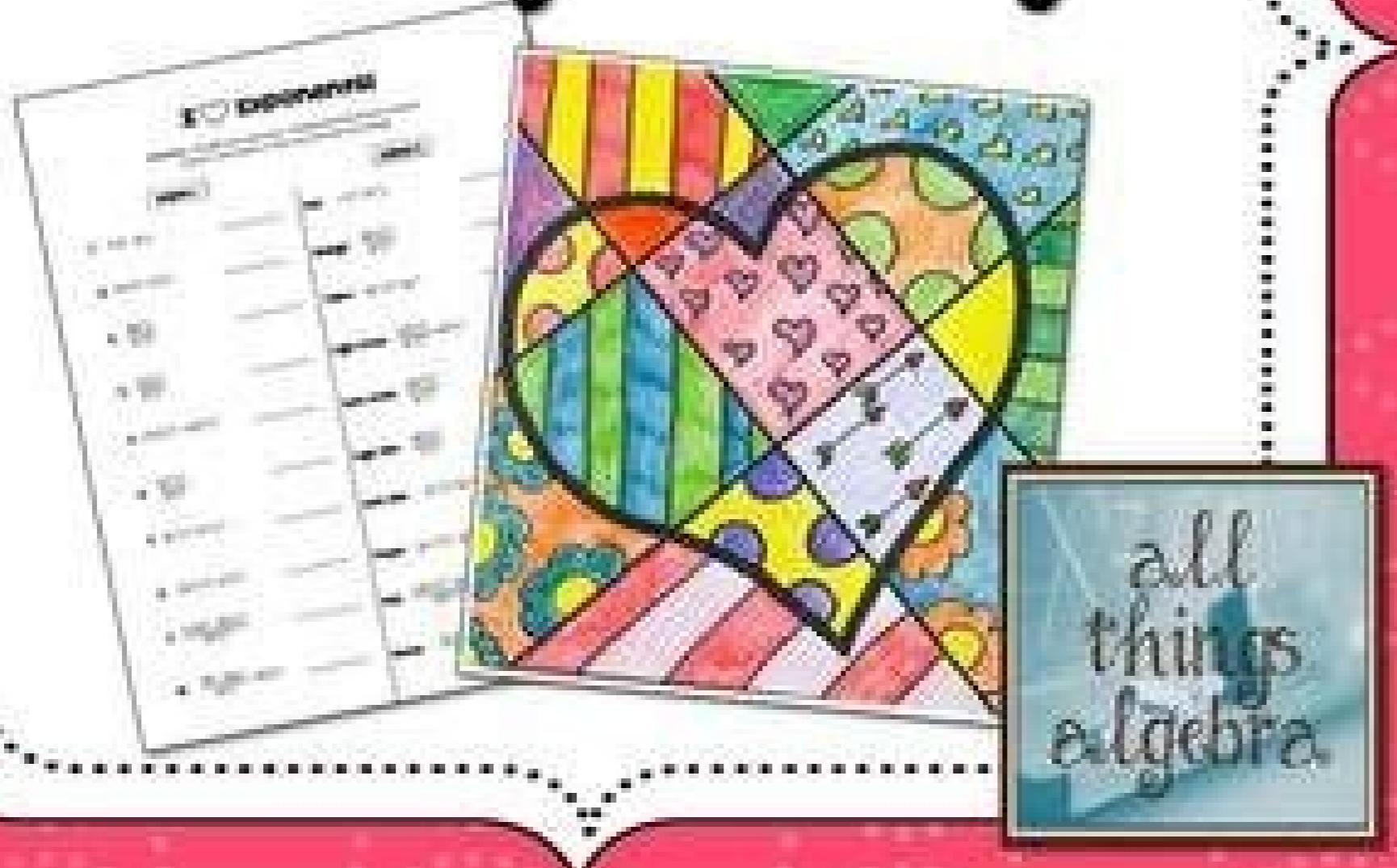
Exponent rules coloring sheet answer key. Applying exponent rules worksheet. Coloring rules. Exponent rules coloring worksheet answers. Easy exponent rules worksheet.

Heaves, notes, activities, games, skirt tickets and tests. There are two paper activities that are interactive, create high involvement and help work together. Option 2: Other properties of exponents are not included. Mazedon't see the topic or the drive you're looking for? The title gives a "track" on what is the image, but students do not discover until they do the bills. This is a Diffage 16Exponents medication partner worksheets this ready to print exponents partner spreadsheet is a great way to work together by keeping each student responsible. Simplifying exponents can be fun with this puzzle! Two puzzle levels are included. When they complete the problems, they have two chances of getting the correct answer. Expants are fully explained with definitions and examples in 28 explanations and sample mines. Are you looking for a fun and engaging way to give your students a quick practice about evaluating exponents? Questions 7 - 10 are quotient rule issues, some with coefficients, some without. "Timo for morning work, heating or homework, this spreadsheet of a three-problem page will have students analyzing and evaluating the work of another student. They will use the Student Student sheet to eliminate Stick's students until it just remains. The correct answer to the first question takes you to the second question (and so on). Questions 5 and 6 Pieces to the student who finds the rear or square area with monomial side lengths. QR CODES (optional) make this game even more interactive as students receive immediate feedback in their work! All I can math games can be used for independent practice, a small group activity, a complete revision or for progress monitoring. Check out this package of 7 different activities to use Your classroom! Includes 6 sets of digital boom cards with instantaneous feedback and a group activity that will receive the students up and move as they practice! Boom Boom We are great for e-learning or in person! Students love to get immediate feedback on their answers and teachers love not to have to pass the classification of time! Check out the links in the Thethis views is the first mixture in a set designed to help students practicing expressions by simplifying exponents. Explanation and example Slides include: vocabulary: base number, exponent, square squares, cubes, perfect, rootswriting squareswriting the 19Howdy exponentpage, June 2019 update: the download folder has three files: document Word, PDF and a PDF with a Google Link .June 2019: Note on cards and: Task template 4 says: Â â € ‡ â Number is than another. I found the smaller phrase times than disturbing and also my students. My students always love to patch the track along with the thet a complete unit, ready for impressions, covering topics from Â lgebra 1 teks, including expressions of simplification involving exponents, simplifying square roots and factoring quadratics.Unit General: students will expand their study of square exponents and roots in the first part of this unit. The edges of the triâms combine to form a hexagon. Includes property names, symbols, examples, and pratic problems. Students evaluate exponents, including exponents of fraction and decimal. The PDF has a high resolution, and is done to fit 8.5 "11" seamless paper. In this set we covered exponents. In the end, they will enter the remaining student for Google's form to get out of the game! Included in this activity: 1) Multiplying and dividing the same base2) multiplying the laws of rules of Bundleby exponents working in simplifying excluding expressions in the classroom or with teaching at the distance? Students start in the "beginning" solving The labyrinth ends where a box does not have correction and negative (folding) exponents for Â lgebra 1by now with two options! This It allows students to discover, make annotations and practice skills associated with zero and negative exponents. Coloring the image by letter.This is a fun and engaging way to learn! PROD_ID: 931-6MandyColfall: Exponent Laws - Coloring Sheets | Color by CodeBy Autumn / Autumn Matem Matem Coloring Pages (Color by Cotigo) with Answer Box. Coloring the image by letter.This is a fun and engaging way to learn! PROD_ID: 1048-3mandycollows of exponents - coloring spreadsheets | Color by Codepy Farm Theme Math Coloring Pages (Color by Code) with Answer Box. Students will use the rules to multiply and divide powers, raising a power for a power, zero exponents, negative exponents and evaluate exponents with order of operations. The drawings can also be cut and welch together to make a great PII art can math games are the perfect way to make mathematics fun! This 8th year's mathematics game focuses on properties of exponents and operations with scientific notice, and provides practical students in the form of multiple choice issues or short answers. They can all be solved using the reciprocal exponent or the conversion for radicals. There are individual investigations of the product rule, a rule of the quotient and power to a rule of energy, where students discover their own rules, interactive scanning notes, the game I have, who has, the game Connect 4, a revisible worksheet Exponent, 2 revision spreadsheets 2 home assignments, a partner checking the practice and a test or test. This activity is focused on the patterns of the 4th year (without exponents). Unit 7 establishes the basis for the introduction of quadratic equations and functions in later units. Students also learn how to factor quadtic expressions, including the difference of rules recognition from squaresexponent worksheetsbacksbacks Discussion, students will explore numbers patterns to help build their understanding of positive, negative and and exponents. What about cousin numbers versus numbers or composite factors versus multiple? Click the image to see the PDF. Included answers. The worksheet includes 12 problems in multiple format choice as well as a response key. Posspage 20 Photowers and Exponents, Exponent Laws, Error Analysis, Graphic Organizers, Labyrinth, Riddle, Othis Bundle Activities Includes 10 Error Analysis Activities and 10 Solitude of graphic organizers, 1 labyrinth, 1 riddle, 1 color per number (more than 50 skills and real world problems). Coloring the image by letter.This is a fun and engaging way to learn! PROD_ID: 1048-11MandyColexponents - Coloring Sheets | Color by CodeBy Safari animals theme Matematic coloring (color by code) with response box. They then solve the proexponents | Powers of ten | Anchor Chartby These listening graphics are great visual resources that can be used â € â €

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