


Math aids evaluate the exponents answers

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Name : _____ Score : _____
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Dividing Radicals

Simplify

- | | |
|---|-------------------------------------|
| 1) $\frac{\sqrt{20}}{\sqrt{5}}$ | 2) $\frac{\sqrt{6}}{\sqrt{3}}$ |
| 3) $\frac{\sqrt{3}}{\sqrt{20}}$ | 4) $\frac{a}{\sqrt{a^2 + 144}}$ |
| 5) $\frac{4}{1 + \sqrt{3}}$ | 6) $\frac{4}{\sqrt{4}}$ |
| 7) $\frac{1 + \sqrt{3}}{\sqrt{3}}$ | 8) $\frac{7}{1 + \sqrt{2}}$ |
| 9) $\frac{a\sqrt{3}}{\sqrt{20}}$ | 10) $\frac{1 + \sqrt{3}}{\sqrt{3}}$ |
| 11) $\frac{1 + \sqrt{3}}{1 + \sqrt{3}}$ | 12) $\frac{\sqrt{6}}{\sqrt{3}}$ |

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Perfect Squares and Cubes Operations

Write the square or cube for each number.

- | | | |
|------------------|------------------|-------------------|
| 1) $4^2 =$ _____ | 2) $7^2 =$ _____ | 3) $16^2 =$ _____ |
| 4) $2^2 =$ _____ | 5) $6^2 =$ _____ | 6) $12^2 =$ _____ |

Write the square root for each number.

- | | | |
|--------------------------|--------------------------|-------------------------|
| 7) $\sqrt{16} =$ _____ | 8) $\sqrt{100} =$ _____ | 9) $\sqrt{225} =$ _____ |
| 10) $\sqrt{144} =$ _____ | 11) $\sqrt{361} =$ _____ | 12) $\sqrt{25} =$ _____ |

Write the cube root for each number.

- | | | |
|------------------------------|------------------------------|------------------------------|
| 13) $\sqrt[3]{1000} =$ _____ | 14) $\sqrt[3]{1} =$ _____ | 15) $\sqrt[3]{27} =$ _____ |
| 16) $\sqrt[3]{27} =$ _____ | 17) $\sqrt[3]{1000} =$ _____ | 18) $\sqrt[3]{8000} =$ _____ |

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Multiplying Fractions with Cross Cancelling

- | |
|--|
| 1) $\frac{2}{3} \times \frac{1}{2} =$ $\frac{2 \times 1}{3 \times 2} = \frac{1}{3}$ |
| 2) $\frac{2}{3} \times \frac{5}{10} =$ $\frac{2 \times 5}{3 \times 10} = \frac{1}{3}$ |
| 3) $\frac{2}{3} \times \frac{3}{6} =$ $\frac{2 \times 3}{3 \times 6} = \frac{2}{6}$ |
| 4) $\frac{2}{3} \times \frac{2}{3} =$ $\frac{2 \times 2}{3 \times 3} = \frac{4}{9}$ |
| 5) $\frac{1}{2} \times \frac{3}{10} =$ $\frac{1 \times 3}{2 \times 10} = \frac{3}{20}$ |
| 6) $\frac{2}{3} \times \frac{4}{5} =$ $\frac{2 \times 4}{3 \times 5} = \frac{8}{15}$ |
| 7) $\frac{1}{2} \times \frac{1}{2} =$ $\frac{1 \times 1}{2 \times 2} = \frac{1}{4}$ |
| 8) $\frac{1}{2} \times \frac{5}{10} =$ $\frac{1 \times 5}{2 \times 10} = \frac{1}{4}$ |
| 9) $\frac{1}{2} \times \frac{2}{5} =$ $\frac{1 \times 2}{2 \times 5} = \frac{1}{5}$ |

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Evaluate the Exponents

Directions: Evaluate each exponent. For fractions use the / for the answer.

- 1) $4^2 =$ _____
- 2) $5^3 =$ _____
- 3) $0.25^2 =$ _____
- 4) $\frac{1}{2}^3 =$ _____
- 5) $8^3 =$ _____
- 6) $2^5 =$ _____
- 7) $3^4 =$ _____
- 8) $0.3^3 =$ _____
- 9) $\frac{1}{10}^4 =$ _____
- 10) $6^3 =$ _____

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Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

1) $a^3 \cdot a^4$ 7) $20 \cdot 40^0$

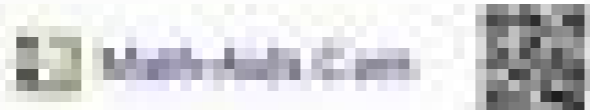
2) $6^3 \cdot 6^4$ 8) $3x^2 \cdot 9x^2$

3) $2^3 \cdot 2^2 \cdot 2^2$ 9) $\frac{2^3}{2^2}$

4) $\frac{3^3 \cdot 3^4}{3^2}$ 10) $\frac{2^3 \cdot 2^2 \cdot 3^2 \cdot 2^2 \cdot 400^0}{3^2}$

5) $\frac{6^3 \cdot 6^2}{6^4}$ 11) $4b \cdot 6a^2b^2$

6) $\frac{2^3 \cdot 2^4}{2^2}$ 12) $4c^3 \cdot 5c^2$



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Welcome to the powers of ten math spreadsheets page at Math-Drills.com where you have the power to learn this important skill! This page includes Powers of ten math spreadsheets with integers and decimal numbers in comma/dot and semicolon format for students to learn this important skill. Understanding how to multiply and divide by powers of ten is one of those essential skills students cannot do without. It facilitates the use of estimation skills, is essential for learning large and small numbers, and solidifies the understanding of the value of the place and numbers in general. This page includes many powers of ten worksheets with integer numbers because there are fewer digits to work with and the decimal place is in a constant position which means that the integer number of worksheets will turn out to be a good step for the more difficult decimal versions, at the bottom of the page. Positive powers of ten refer to 10, 100 and 1,000. Negative powers of ten refer to 0.1, 0.01 and 0.001. We have supplied worksheets in both standard and exponent form. If this is new to you, $10^{-3} = 0.001$, $10^{-2} = 0.01$, $10^{-1} = 0.1$, $10^0 = 1$, $10^1 = 10$, $10^2 = 100$, $10^3 = 1000$. Most popular powers of ten worksheets this week Learn how to multiply and divide integers by powers of ten worksheets Worksheets to learn the patterns associated with multiplying and dividing by powers of ten. Learning to multiply by the powers of ten worksheets includes the same number multiplied by the positive or negative powers of ten. This allows students to see patterns in multiplying or dividing by a power set of ten. Multiplying and dividing integers by powers of ten worksheets Practice worksheets multiplying and dividing integers by powers of ten Mixed and individual powers of ten and standard and exponent forms. Multiplying and dividing decimal numbers by powers of ten worksheets Worksheets to practice multiplying and dividing decimal numbers by powers of ten with with and individual powers of ten and standard and exponent forms. Unlike the previous whole number worksheets, these worksheets and the split and mixed versions that follow include more digits, more need to know place value and, consequently, more of a challenge. This is probably not a good place to start if your students are learning to multiply and divide by powers of ten. Instead, try the whole number worksheets at the top of the page.If they are ready, these worksheets will be a great challenge and will help your students a lot to succeed in their math learning. Our meticulously designed, printable absolute value worksheets for sixth and seventh grade students include exercises such as finding the absolute value of positive and negative integers, performing simple addition, subtraction, multiplication and division involving the absolute value of real numbers, and much more. Start your internship with our free worksheets. Created January 17, 2017 by Andres Chan Order of Operations Easy SummaryThis lesson is about the evaluation of numerical expressions, and was designed for adult students preparing to take their Secondary School Equivalency tests.This course will help students to correctly evaluate numerical expressions following the correct order of operations, which includes the four basic arithmetic operations and the use of expon Student Audience / Primary UsersThis lesson was designed for adult students preparing to take their Second School Equivalency exams, would, as well as for instructors.Educational UseProfessional and University Preparation Standards (CCRS) Alignment Level: Adult Education Degree Level: Grade Level C Subject: MathematicsDomain: Operations and Algebraic ThoughtStandard: Use parentheses, brackets or keys in numerical expressions, and evaluate the expressions with these symbols. (5.OA.1) Domain: Equations and Expressions Standard Description: Write and evaluate numerical numerical that involve whole exponents. (6.EE.1) LanguageEnglishMaterial Type Instructional MaterialHomework and Assignments Images and Videos Diagnostic, formative and final evaluations Learning ObjectivesThe purpose of this lesson is for students to:Identify which operations have priority when evaluating a numerical expression.Correctly apply the order of operations when evaluating numerical expressions. Simplify your answers as much as possible when evaluating numerical expressions.Keywords Designers for Learning Adult EducationSpeakersGrouping of symbols Numerical expressions Order of operationsPEMDS Time required for lesson35 minutesPrevious knowledgeStudents should be able to: Work with basic arithmetic operations. Use parentheses, brackets, or brackets in numerical expressions and evaluate expressions with these symbols. Resources RequiredDepending on the resources available, this course can be delivered as a fully online course, a face-to-face course or a hybrid course.Access to an electronic device that includes: computers, smartphones and tabletsInternet accessSlate and blackboardPaperPencilEraserLesson Author and License: Creative Commons License CC BY 4.0. Learning ObjectivesAt the end of this lesson, the student should be able to: Identify which operations have priority over the evaluate a numerical expression.Apply the order of operations correctly when evaluating numerical expressions.Simplify your answers as much as possible when evaluating numerical expressions. Topics of the lessonThe key topics covered in this lesson include: Evaluation of numerical expressionsOrder of operations Grouping of symbols and exponents Context AbstractThis course will involve students in one of the fundamental skills of arithmetic, which is the order of operations. By learning the correct order in which a numerical expression should be solved, the will be able to apply this knowledge in future courses of Algebra, Geometry and Precalculus.Relevance Precalculus.Relevance PrÁcticaCuando se da un problema matemÁtico, A¿por quÁ© distintas personas obtienen respuestas diferentes? La respuesta puede estar en el orden en que resolvimos el problema. Muchas personas no son conscientes de que existen convenciones aplicadas para resolver problemas numÁ©ricos que implican má¿s de dos operaciones. Esta lecciÁ©n pretende proporcionar a los alumnos los conocimientos necesarios para aplicar estas convenciones a la hora de resolver expresiones numÁ©ricas.TÁ©rminos y conceptos clave ExpresiÁ©n numÁ©rica EvaluaciÁ©n de expresiones numÁ©ricas AgrupaciÁ©n de sÁ©mbolos Orden de las operaciones PEMDAS (parÁ©ntesis, exponentes, multiplicaciÁ©n, divisiÁ©n, suma, resta) SimplificaciÁ©n de expresiones Estrategias didÁ©cticas y actividadesTiempo de calentamiento: 1 minutoEl profesor darÁ© a los alumnos 20 segundos para que resuelvan el siguiente problema:Á 2+6/2+4=... En el tiempo restante, la clase reflexionarÁ© sobre cuÁ©l era la respuesta correcta y por quÁ©. Á La respuesta correcta es 9. Si los alumnos aplicaran el orden incorrecto de las operaciones, probablemente obtendrÁ©n respuestas como: 8, 3, etc. Their wrongÁ answers may also include fractions.This warm-up will serve as a diagnostic test toÁ see how much the students know about the order of operations.IntroductionTime: 1 minuteThe teacher explains the goals of this lesson, which are:Á Identify which operations have priority whenÁ evaluating a numericalÁ expression.Apply the order of operations correctly when evaluating numericalÁ expressions.Simplify their answers as much as possible when evaluating numericalÁ expressions.Presentation / Modeling / DemonstrationTime: 12Á minutes The students will watch the following video:Á [1]Math Antics - Order Of OperationsAfter watching the video, the students will reflect on the order of operations by analyzing the acronym PEMDAS: Parentheses/Brackets, Exponents, Multiplication, Division, Addition, and Subtraction.Á The teacher shouldÁ make sure that the students understand that and division have the same priority, and when they faceÁ a problem with both multiplication and division division and multiplication one next to the other, should solve the problem from left to right. For example: Is 12 / 4 x 3 = Is 12 / 4 x 3 = 3 x 3 = 9 Is The same rule applies when there is a sum and subtract, one next to the other. You must solve the problem from left to right. For example: 16 Á 4 + 12 = 16 Á 4 + 12 = 12 + 12 = 24Guided PracticeTime: 5 minutesStudents will play an interactive game to test their mastery of the order of operations. The game has different levels, and if the student has difficulty getting the right answers, there is an option to give tips on PEMDES.When a student makes a mistake, the game provides instant feedback on what was wrong.Exploring the Order of Operations Á Do it! (link to the interactive game) EvaluationTime: 10 minutesSolve the 12 problems presented in the following quiz on a piece of paper. To view the answer, simply click the 'Answer' link next to each problem, and a complete step-by-step solution to the problem will be displayed on the screen.Order of operations QUIZÁ (link to the questionnaire) RequestTime: 6 minutesTo apply all the concepts learned in this lesson, the student will choose two problems from the worksheet presented below. You will solve those two problems on a piece of paper, and check the answers on the answer key at the end of the worksheet. The answer key includes a detailed step-by-step explanation for each problem.Download: order of operations.pdfPart 3: Complementary Resources and ReferencesComplementary ResourcesKhan Academy Videos:Introduction to the Order of Operations, created by Salman Khan, published at: Creative Commons License, NC, SA.Arítméticos and Preálgebra: Order of Operations Examples, created by Salman Khan, published in: Creative Commons License, NC, SarferencesTribuciÁ©n SarferenciÁ©n Order of Operations Á Use It!, creado por LearnAlberta.ca, publicado en NCOOrder of Operations Quiz, creado por The Shodor Education Foundation, Inc., publicado en CC sin restricciones.Practice with Order of Operations, creado por Lisa Schultzki, publicado en of Operations PDF workheet, generado por Math-Aids.com, publicado en en

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