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| Resultado de imagem para turquia bandeiraSmart School for Smart AgeLesson plan - Erasmus + |
| **Subject: Mathematics** |
| **Number of lessons: 2** |
| **Teachers: Murat AVANOĞLU** |
| **Topic: Exponent Rules** |
| **Key words:** integer **,** exponents **,** *expression* **,** properties |
| **Lessons objectives:*** After this lesson, students will be able to:
* Define the term exponent
* List the rules and properties of exponents
* Demonstrate the ability to use the properties of exponents
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| **Resources*** Computers with internet access;
* Multimedia projetos;
* Tablets with internet access;
* Mobile Phones with internet access.
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| **Lessons sequence/activity*** **Exponent Rules with Khan Academy(2 lesson)**
* **Exponent Rules with Khan Academy(2 lesson)**
* **Quiz(1 lesson)**
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| **Web Tools** |   www.khanacademy.org |
|  | [**https://www.mcckc.edu/tutoring/docs/bt/exp\_rad\_log/Exponent\_Rules\_&\_Practice.pdf**](https://www.mcckc.edu/tutoring/docs/bt/exp_rad_log/Exponent_Rules_%26_Practice.pdf) |
|  | [**https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/v/multiplying-and-dividing-powers-with-integer-exponents**](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Arational-exponents-radicals/x2f8bb11595b61c86%3Aexponent-properties-review/v/multiplying-and-dividing-powers-with-integer-exponents)**[https://study.com/search/text/academy.html?q=exponent+rules&pageType=lesson#/topresults/exponent%20rules](https://study.com/search/text/academy.html?q=exponent+rules&pageType=lesson" \l "/topresults/exponent rules)**  |





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 **Lesson 1 Exponent Rules**



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| **1.** | **Learn** - For any base a and any integer exponents n and m, aⁿ⋅aᵐ=aⁿ⁺ᵐ. For any nonzero base, aⁿ/aᵐ=aⁿ⁻ᵐ. These are worked examples for using these properties with integer exponents[https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/v/multiplying-and-dividing-powers-with-integer-exponents](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Arational-exponents-radicals/x2f8bb11595b61c86%3Aexponent-properties-review/v/multiplying-and-dividing-powers-with-integer-exponents)  |
| **2.** | **Pratice Multiply & divide powers (integer exponents)**[https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/e/exponent\_rules](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86%3Arational-exponents-radicals/x2f8bb11595b61c86%3Aexponent-properties-review/e/exponent_rules)  |
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 **Lesson 2 Exponent Rules**





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| **1.** | **Learn** - For any integers a and b and for any exponents n, (a⋅b)ⁿ=aⁿ⋅bⁿ and (a/b)ⁿ=aⁿ/bⁿ. These are worked examples for using these properties with integer exponents.  https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/v/powers-of-products-and-quotients-integer-exponents |
| **2.** |  **Pratice-****Powers of products & quotients (integer exponents)**https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/e/powers-of-powers-int-exp |
| **3.** | **Quiz –****Properties of exponents challenge (integer exponents)**https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:exponent-properties-review/e/properties-of-integer-exponents |