Connexions module: m18890

EXPONENTS, ROOTS, AND FACTORIZATIONS OF WHOLE NUMBERS: OBJECTIVES*

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Abstract

This module contains the learning objectives for the chapter "Exponents, Roots, and Factorizations of Whole Numbers" from Fundamentals of Mathematics by Denny Burzynski and Wade Ellis, jr.

After completing this chapter, you should

Exponents and Roots (here1)

- understand and be able to read exponential notation
- understand the concept of root and be able to read root notation
- be able to use a calculator having the y^x key to determine a root

Grouping Symbols and the Order of Operations (here²)

- understand the use of grouping symbols
- understand and be able to use the order of operations
- use the calculator to determine the value of a numerical expression

Prime Factorization of Natural Numbers (here³)

- be able to determine the factors of a whole number
- be able to distinguish between prime and composite numbers
- be familiar with the fundamental principle of arithmetic
- be able to find the prime factorization of a whole number

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¹"Exponents, Roots, and Factorization of Whole Numbers: Exponents and Roots"

 $<\! http://cnx.org/content/m34871/latest/\! >$

^{2&}quot;Exponents, Roots, Factorization of Whole Numbers: Grouping Symbols and the Order of Operations" http://cnx.org/content/m34872/latest/

³"Exponents, Roots, Factorization of Whole Numbers: Prime Factorization of Natural Numbers" http://cnx.org/content/m34873/latest/

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The Greatest Common Factor (here⁴)

• be able to find the greatest common factor of two or more whole numbers

The Least Common Multiple (here⁵)

• be able to find the least common multiple of two or more whole numbers

⁴ "Exponents, Roots, and Factorizations of Whole Numbers: The Greatest Common Factor" $<\!$ http://cnx.org/content/m34874/latest/>

^{5&}quot;Exponents, Roots, Factorization of Whole Numbers: The Least Common Multiple" http://cnx.org/content/m34876/latest/