

Chapter 7

Homework & Chapter Summary

Homework:

7-1: Zero & Negative Exponents: pgs. 417-419; 1-6 all; 10-44 alt evens; 47-54 all; 65-71 all; 73-77 all; 82-86 evens

7-2: Scientific Notation: pgs. 423-425; 1-7 all; 12-34 evens; 40-45 all; 52-60 all

7-3: Multiplying Powers with the Same Base: pgs. 429-431; 1-3, 5-7 all; 8-34 evens; 37-45 all; 47-50 all; 58-70 all; 72-80 all

7-4: Powers of Powers and Products of Powers: pgs. 436-438; 1-9 all skip 7; 10-44 evens; 47-55 all; 58-64 evens; 66,69,71-76 all; 78-88 all

7-5: Division Properties of Exponents: pgs. 443-446; 1-4 all; 8-22 evens; 34-48 evens; 49-53 all; 60-66, 70-78 evens; 83-86 all; 89-92 all; 94-106 all

Bonus: Chapter Test; pg. 467; not 17, 18, 19, 20, 23

Chapter Overview

Exponent Rules:

1. $x^0 = 1$
2. $x^{-a} = 1 / x^a$
3. $(x^a) * (x^b) = x^{(a + b)}$
4. $(x^a) \div (x^b) = x^{(a - b)}$
5. $[(x^a)^b] = x^{(a * b)}$

Scientific Notation:

Any number, no matter how large or small, can be written as the product of a number between 1 and 10, and a positive or negative power of 10.