

Lesson 8.2.1 - Exponents & Scientific Notation

Homework: 8-47, 8-48, 8-66, 8-70, 8-71, 8-88, 8-91, 8-92
8-109, 8-110

Law of Exponents

When multiply like bases, you keep the base and add the exponent

$$x^4 \cdot x^2 = x^{4+2} = x^6$$

$$= \underbrace{x \cdot x \cdot x \cdot x}_{x^4} \cdot \underbrace{x \cdot x}_{x^2} = x^6$$

Expanded Form

$$2x^4 \cdot 3xy^2 = (\underbrace{2 \cdot x \cdot x \cdot x \cdot x}_{2x^4}) \cdot (\underbrace{3 \cdot x \cdot y \cdot y}_{3xy^2})$$
$$= 6x^5y^2$$

Scientific Notation

$$9.23 \times 10^1 = 92.30$$

1 zero move decimal once

$$9.23 \times 10^3 = 9230$$

$$9.23 \times 10^2 = 923$$

$$9.23 \times 10^4 = 92,300$$

$$78.659 \times 10^2 = 7865.9$$

$$346.38 \times 10^4$$
$$3,463,800$$

Algebra Core Connections Answers

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