

EXTRA PRACTICE — Exercises

Copyright © 2003 by Videotext *Interactive*

Unit V – Second Degree Relations and Higher - Polynomials Part A – Exponent Notation

Lesson 5 – Scientific Notation

Rewrite each of the following decimal numbers in scientific notation.

1. 0.00648

2. 489,300

3. 2,506,300

4. 2,607,000,000,000

5. 0.210005

6. 0.000000879

7. 0.000089005

8. 250,000,000

9. 1,395

10. 0.000016

Perform the following computations, first rewriting each number in scientific notation, and finally making sure the result is in scientific notation.

11. $23,000 \times 0.0421$

12. $6,500 \times 0.521$

13. $0.00000732 \times 4,300,000$

14. $560,000 \times 0.0000000087$

15. $\frac{0.00000000075}{0.000025}$

16. $\frac{850,000,000}{34,000}$

17. $\frac{22,000,000}{0.00032}$

18. $\frac{0.00000000012}{0.000064}$

19. $\frac{279,000,000 \times 0.00093}{186000 \times 0.0001}$

20. $\frac{0.0005 \times 430,000}{860,000 \times 4,000}$

EXTRA PRACTICE — Answer Key

Copyright © 2003 by Videotext *Interactive*

Unit V – Second Degree Relations and Higher - Polynomials

Part A – Exponent Notation

Lesson 5 – Scientific Notation

Simplify each of the following exponential forms using the patterns illustrated in the example. Make sure your answers do not contain exponents that are zero or negative.

1. 6.48×10^{-3}

2. 4.893×10^5

3. 2.5063×10^6

4. 2.607×10^{12}

5. 2.10005×10^{-1}

6. 8.79×10^{-7}

7. 8.9005×10^{-5}

8. 2.5×10^8

9. 1.395×10^3

10. 1.6×10^{-5}

Perform the following computations, first rewriting each number in scientific notation, and finally making sure the result is in scientific notation.

11. 9.683×10^2

12. 3.3865×10^3

13. 3.1476×10

14. 4.872×10^{-3}

15. 3.0×10^{-5}

16. 2.5×10^4

17. 6.875×10^{10}

18. 1.875×10^{-5}

19. 1.395×10^4

20. 6.25×10^{-8}