

III. Scientific Notation

Write each number in standard form.

15. $7 \cdot 10^{-5}$

16. $7.5 \cdot 10^7$

17. $-8.2 \cdot 10^{-4}$

18. $1.004 \cdot 10^3$

Write each number in Scientific Notation.

19. $-.000763$

20. $1,020,000,000$

21. $.000402$

22. $6,780,000$

Simplify each expression. Write in Scientific Notation.

23. $\frac{9 \cdot 10^{-5}}{3 \cdot 10^3}$

24. $\frac{3.22 \cdot 10^8}{1.4 \cdot 10^2}$

25. $(5.1 \cdot 10^7)(1.2 \cdot 10^5)$

26. $(7.1 \cdot 10^{-8})(1.3 \cdot 10^2)$

IV. Perfect Squares

Simplify.

27. $\sqrt{400} - \sqrt{49} + \sqrt{4}$

28. $3\sqrt{17+8} + 3\sqrt{64}$

29. $\sqrt{144} - \sqrt{361}$

30. $\sqrt{433-144}$