

EXTRA PRACTICE 1.7 SCIENTIFIC NOTATION

Write each amount in scientific notation.

1. 910.5

9.105×10^2

2. 0.00076

7.6×10^{-4}

3. 320,000

3.2×10^5

4. 0.00000432

4.32×10^{-6}

5. 75,488

7.5488×10^4

6. 0.00007

7.0×10^{-5}

7. 98,000,000

9.8×10^7

8. 0.000607

6.07×10^{-4}

9. 435.886

4.35886×10^2

10. Radio waves travel at 300,000,000 meters per second. 3.0×10^8 m/s

11. The population of India in 2025 is expected to exceed 1,400,000,000.

1.4×10^9 people

Write each amount in decimal notation.

12. 1.23×10^7

12,300,000

13. 6.09×10^4

60,900

14. 4.81×10^5

481,000

15. 2.2×10^8

220,000,000

16. 9.1×10^5

910,000

17. 8.04×10^2

804

18. 2.3×10^{-2}

0.023

19. 3.4×10^{-4}

0.00034

20. 5.7×10^{-5}

0.000057

21. 7.7×10^{-3}

0.0077

22. 6.57×10^{-6}

0.00000657

23. 9.80×10^{-2}

0.0980

24. The movement of a glacier is approximately 5×10^{-4} kilometers per hour.

0.0005 km/h

25. A micron is a unit of measure 1×10^{-3} millimeters in length. 0.001 mm