

1.  $8.9 \times 10^9$
2.  $5.559 \times 10^8$
3.  $6.31 \times 10^{-4}$
4.  $6 \times 10^{-6}$
5.  $2.09 \times 10^{-1}$
6.  $4.09 \times 10^{-3}$
7.  $5 \times 10^9$  km
8. 59,400,000
9. 0.00000002104
10. 120,000
11. 0.00072
12. 275,000,000
13. 0.0060502
14.  $9 \times 10^{10}$
15.  $7.2 \times 10^{-5}$
16.  $5.28 \times 10^{10}$
17.  $3.508 \times 10^{-4}$
18.  $0.065 \times 10^{11}$ ,  $16 \times 10^9$ ,  $2.3 \times 10^{12}$
19.  $3.7 \times 10^{-8}$ ,  $253 \times 10^{-9}$ ,  $12.9 \times 10^{-7}$
20.  $2.996 \times 10^4$ ,  $432 \times 10^3$ ,  $65 \times 10^4$
21.  $3 \times 10^9$
22.  $8.6 \times 10^{-5}$
23.  $6.3 \times 10^6$
24.  $6 \times 10^4$
25.  $2 \times 10^{10}$  lb
26. 900
27. 8,430,000
28. 0.000000602
29. 5,880,000,000,000 mi
30. B
31.  $10^{-8}$ ,  $10^{-6}$ , 100,  $10^5$ ,  $10^9$
32.  $782 \times 10^{-8}$ ,  $0.8 \times 10^{-4}$ ,  $9.1 \times 10^{-5}$ ,  $55.8 \times 10^{-5}$ ,  
 $1,009 \times 10^2$
33. a-b. Answers may vary. Samples are given. Move the decimal point 4 places to the right and write  $4.3 \times 10^{-4}$ .  
Write  $523.4 \times 10^5 = 5.234 \times 10^2 \times 10^5 = 5.234 \times 10^7$ .

34.  $9.996 \times 10^8$  people

35. about  $\$2.76 \times 10^{12}$