

## Answers for Lesson 2-8, pp. 94–95 Exercises

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1. 1
2. When you move the decimal point 6 places to the right, it takes 2 moves to get to the right of 0.55.
3. greater than 0, because the number remains positive even though the decimal point moves 5 places to the left
4. Yes; the decimal point in each number needs to move 2 places to the left.
5. 3,200
6. 50,800
7. 410,000,000
8. 7,145,000,000
9. 260,000 lb
10.  $4.8 \times 10^3$
11.  $1.72 \times 10^4$
12.  $1.8 \times 10^5$
13.  $3.43502 \times 10^5$
14.  $\$2.5 \times 10^{10}$
15. 0.0025
16. 0.0000512
17. 0.0105
18. 0.000000314
19. 0.00935 cm
20.  $5.81 \times 10^{-3}$
21.  $1.05 \times 10^{-3}$
22.  $7.8 \times 10^{-6}$
23.  $2.7 \times 10^{-5}$
24.  $1.32 \times 10^{-7}$
25.  $9 \times 10^{-9}$
26.  $1.3 \times 10^8$
27. 8
28. 5.6194
29. -6
30. 4.802
31.  $3.92 \times 10^8$
32. because 492 is not between 1 and 10
33.  $1.5 \times 10^6$  km
34.  $3 \times 10^{100}$
35. a. 2,750,000 calories  
b.  $2.75 \times 10^6$  calories
36. It increases by two.
37.  $9 \times 10^{28}$
38. C
39. G
40. D
41. -135
42. 63
43. -18