Place Values and Decimals Worked Solutions

1. In 347, the 4 is in the _____ place. tens
2. In 682, the 6 is in the _____ place. hundreds
3. In 862, the 2 is in the _____ place. ones
4. In 5.3, the 5 is in the _____ place. ones
5. In 2.74, the 7 is in the _____ place. tenths
6. In 2.74, the 4 is in the _____ place. hundredths
7. In 904, the 9 is in the _____ place. hundreds
8. In 508, the 0 is in the _____ place. tens
9. In 0.8, the 8 is in the _____ place. tenths
10. In 0.08, the 0 is in the _____ place. tenths
11. In 0.08, the 8 is in the _____ place. hundredths
12. In $1,234$, the 1 is in the _____ place. thousands
13. In $1,234$, the 2 is in the _____ place. hundreds
14. In $12,34$, the 3 is in the _____ place. tens
15. In $123,4$, the 4 is in the _____ place. ones
16. In 7.5, the 7 is in the _____ place. ones
17. In 4.63, the 6 is in the _____ place. tenths
18. In 4.63, the 3 is in the _____ place. hundredths
19. In 506, the 0 is in the _____ place. tens
20. In 3.47, the 3 is in the _____ place. ones
21. In 9.147, which place is the 9 in? ones
22. In 9.147, which place is the 1 in? tenths
23. In 9.147, which place is the 4 in? hundredths
24. In 9.147, which place is the 7 in? thousandths
25. In $2,086$, which place is the 2 in? thousands
26. In $2,086$, which place is the 8 in? tens
27. In $2,086$, which place is the 6 in? ones
28. In 5.038, which place is the 5 in? ones
29. In 5.038, which place is the 0 in? tenths
30. In 5.038, which place is the 3 in? hundredths
31. In 5.038, which place is the 8 in? thousandths
32. In $4,706$, write the value of the 4. 4 000 (four thousands)
33. In $4,706$, write the value of the 0. 0 (zero hundreds)
34. In $4,706$, write the value of the 6. 6 (six ones)
35. In 315.06, what does the 0 represent? 0 tenths
36. In 315.06, what does the 6 represent? 6 hundredths (0.06)
37. In 23.45, write the total value of the digit 2. 20 (two tens)
38. In 23.45, write the total value of the digit 4. 0.4 (four tenths)
39. In 23.45, write the total value of the digit 5. 0.05 (five hundredths)
40. The 8 in 8.326 is worth _____. 8 (eight ones)
41. The 3 in 8.326 is worth _____. 0.3 (three tenths)
42. The 2 in 8.326 is worth _____. 0.02 (two hundredths)
43. The 6 in 8.326 is worth _____. 0.006 (six thousandths)
44. A number has a 7 in the tenths place. Write a possible number. E.g. 0.7 (any number with 7 in tenths, like 3.7, 5.72)
45. A number has a 4 in the hundreds place and a 9 in the hundredths place. Write it. E.g. 400.09 (any 4□□.□9)
46. Explain why the 3 in 3.25 and the 3 in 0.003 have different values. The 3 in 3.25 is in the ones place (worth 3). The 3 in 0.003 is in the thousandths place (worth 0.003). The place determines the value.