

Answers for the Placement Practice Sheet

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|---------------------------------|----------------------------|-------------------------------------|
| 1. 0.69 | 25. $2x\sqrt{3}$ | 46. $\frac{3x^2\sqrt{y}}{y^2}$ |
| 2. 13.275 | 26. $\frac{6x}{(x-2)^4}$ | 47. $x - 2\sqrt{x} - 3$ |
| 3. 0 | 27. $\frac{x(x+3)}{x+1}$ | 48. $-3x^2 - 4x + 3y + 8$ |
| 4. 4 | 28. $3x^2$ | 49. $\frac{x+6}{x^2-4}$ |
| 5. -28 | 29. $\frac{t-3}{2(t-1)}$ | 50. $-3x^2 - 7x + 6$ |
| 6. 31 | 30. $\frac{2\sqrt{7}}{7}$ | 51. $\frac{x(3-x)}{x-1}$ |
| 7. $\frac{13}{5}$ | 31. $\frac{3\sqrt{2t}}{t}$ | 52. $x^3 + 8$ |
| 8. $\frac{35}{4}$ | 32. $\frac{3y^4}{4}$ | 53. $x^2 - 4x + 4 + y^2 + 4y - 2xy$ |
| 9. $\frac{1}{40}$ | 33. $\frac{\sqrt{x}}{12}$ | 54. $\sqrt{6} + \sqrt{3}$ |
| 10. 2.801 | 34. $\frac{6x}{7y}$ | 55. $\frac{5}{2}, -3$ |
| 11. 16 | 35. $x - 3$ | 56. $x = 18$ |
| 12. 14 | 36. $\frac{2x+1}{x+3}$ | 57. $x = 4$ |
| 13. 11 | 37. $-\frac{1}{4}$ | 58. $y = -4$ |
| 14. 2 | 38. $-a - b$ | 59. $(4, 3)$ |
| 15. 0 | 39. $4t^2 - 2t + 5$ | 60. $-\frac{5}{2}, 4$ |
| 16. $9v^2 - 12v + 4$ | 40. $6xy - x^2$ | 61. $0 < x < 2$ |
| 17. $x^2 - 9x + 2$ | 41. $-6u + 3u^2 + 3u^3$ | 62. $x = 8$ |
| 18. $\frac{5(x+1)}{x^3}$ | 42. $5x + 42$ | 63. $t = 1$ |
| 19. $\frac{x^2 + 4x + 6}{2x^2}$ | 43. $-\frac{x}{12}$ | 64. $x = 6$ |
| 20. $-8x^3y^3z^3$ | 44. $\frac{1}{4}$ | 65. $x = 2 \pm \sqrt{6}$ |
| 21. a^7b^8 | 45. $4\sqrt{3} - 6$ | 66. $\frac{P-2w}{2}$ |
| 22. $\frac{3}{x^3}$ | | 67. $0, \frac{2}{3}, -\frac{2}{3}$ |
| 23. $\frac{y^6}{8x^3}$ | | 68. $\frac{4}{3}$ |
| 24. $5\sqrt{7}$ | | 69. $x = 6$ |
| | | 70. $(5, -5)$ |

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| 71. | -6, 4 | 100. | 25 and 46 |
| 72. | $x = 7$ | 101. | b |
| 73. | $x = 3$ | 102. | a |
| 74. | $-3 \pm \sqrt{7}$ | 103. | a |
| 75. | 1, 2 | 104. | c |
| 76. | $(\frac{1}{2}, 1)$ | 105. | a |
| 77. | $x = \frac{3}{2}$ | 106. | c |
| 78. | $0, \frac{1}{4}$ | 107. | b |
| 79. | $x = \frac{1}{4}$ | 108. | c |
| 80. | $x = \frac{3}{2}$ | 109. | a |
| 81. | $\frac{5}{3}, -\frac{3}{2}$ | 110. | b |
| 82. | $(-2, 3)$ | 111. | b |
| 83. | $\frac{5 \pm \sqrt{41}}{2}$ | 112. | c |
| 84. | $x = \frac{13}{9}$ | 113. | d |
| 85. | 0, 4 | 114. | a |
| 86. | 50 | 115. | b |
| 87. | 116% | 116. | d |
| 88. | 3 lbs of dark | 117. | c |
| 89. | \$9433.96 | 118. | a |
| 90. | 16.80 | 119. | a |
| 91. | 3400 (7.5%),
6600 (9%) | 120. | b |
| 92. | 143 | 121. | c |
| 93. | \$525 | 122. | b |
| 94. | 60 mph | 123. | c |
| 95. | 34.5 | 124. | e |
| 96. | 23, 24, 25 | 125. | c |
| 97. | \$31.25 | | |
| 98. | 3" by 9" | | |
| 99. | 8 and 9 | | |