

Algebra Placement Test Review 1 Answers

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|---|-----------------------|
| 1. -25 | 43. $-5/4$ |
| 2. -64 | 44. -22 |
| 3. 25 | 45. $5/9$ |
| 4. 64 | 46. $-1/10$ |
| 5. 25 | 47. -1 |
| 6. 64 | 48. -3 |
| 7. 7^6 | 49. $-13/3$ |
| 8. $3^3 7^4$ | 50. 3 |
| 9. $3^3 11^3$ | 51. 4 |
| 10. $5 \cdot 5 \cdot 5$ | 52. -4 |
| 11. $\pi \cdot \pi \cdot \pi \cdot \pi \cdot \pi$ | 53. $13/6$ |
| 12. 24 | 54. 2 |
| 13. 4 | 55. $2A/b$ |
| 14. $8-5x$ | 56. $(5F-160)/9$ |
| 15. $6x+5$ | 57. $X-4=12$ |
| 16. 12 | 58. $15=x-3$ |
| 17. 15 | 59. $2/3x+6$ |
| 18. 17 | 60. $3x+10$ |
| 19. -4 | 61. $20=4x$ |
| 20. 10 | 62. $56=8x$ |
| 21. 22 | 63. $81=3x$ |
| 22. 2 | 64. $2x-5$ |
| 23. $5x-6y$ | 65. $\frac{1}{2}x-16$ |
| 24. $9x-12y$ | 66. $4x-3$ |
| 25. $-20y$ | 67. $1.25x=75$ |
| 26. $16y$ | 68. $2.5x=50$ |
| 27. $10f^2g$ | 69. $.75x=60$ |
| 28. $3y^3z^2$ | 70. 48 |
| 29. Cannot simplify, not like terms | 71. 37.5 |
| 30. Cannot simplify, not like terms | 72. 26 |
| 31. $2x-4$ | 73. 12 |
| 32. $-4a-1$ | 74. 8 |
| 33. $X+4$ | 75. 12 |
| 34. $9x+10$ | 76. -2060 |
| 35. $28/3$ | 77. 380 |
| 36. $45/4$ | 78. 492 |
| 37. -21 | 79. 30 |
| 38. -20 | 80. 24 |
| 39. -12 | 81. 72 |
| 40. -7 | 82. 72 |
| 41. $-7/3$ | 83. 1 |
| 42. $-9/5$ | 84. 25 |

85.	5^{14}		x^{6-8}
86.	9^{10}	103.	x^{-2}
87.	x^{14}		$\frac{1}{x^2}$
88.	y^{10}		y^{2-8}
89.	x^{48}	104.	y^{-6}
90.	y^{16}		$\frac{1}{y^6}$
91.	$x^8 y^{6 \cdot 8}$	105.	$1/25$
	$x^8 y^{48}$	106.	$1/9^6$
92.	$x^{2 \cdot 8} y^8$	107.	$-4x$
	$x^{16} y^8$	108.	$-x+5$
93.	$(-5)^4 x^{6 \cdot 4} y^4$	109.	$-70y^2 + 49y$
	$(-5)^4 x^{24} y^4$	110.	$-30x^2 - 30x$
94.	$(-4)^3 x^{2 \cdot 3} y^3$	111.	$5x^2 + 2x + 2$
	$-64x^6 y^3$	112.	$7x^2 - 2x - 4$
95.	$5 \cdot 4x^{6+8}$	113.	$11x^3 + 2x + 4$
	$20x^{14}$	114.	$3x^2 + 10x + 2$
96.	$9 \cdot 2y^{2+1}$	115.	$n^2 - 3n + 2n - 6$
	$18y^3$		$n^2 - n - 6$
	$5x^6 \cdot 4^3 x^3$	116.	$x^2 + 7x - 6x - 42$
97.	$5 \cdot 64x^{6+3}$		$x^2 + x - 42$
	$320x^9$	117.	$b^2 - 4b + 4b - 16$
	$9y^2 \cdot 9^4 y^4$		$b^2 - 16$
98.	$9 \cdot 9^4 y^{2+4}$	118.	$y^2 - 2y + 2y - 4$
	$9^5 y^6$		$y^2 - 4$
99.	$\frac{3^3}{4^3} x^{5 \cdot 3}$	119.	$(q+6)(q+6)$
	$\frac{27}{64} x^{15}$		$q^2 + 12q + 36$
100.	$\frac{1^3}{5^3} y^{2 \cdot 3}$	120.	$(z+9)(z+9)$
	$\frac{1}{125} y^6$		$z^2 + 18z + 81$
101.	1	121.	$(w-8)(w-8)$
102.	1		$w^2 - 16w + 64$
		122.	$(p-5)(p-5)$
			$p^2 - 10p + 25$
		123.	$3x^2 - 12x + x - 4$
			$3x^2 - 11x - 4$

124. $6y^2 + 15y + 12y + 30$
 $6y^2 + 27y + 30$
125. $18z^2 - 42z - 12z + 28$
 $18z^2 - 54z + 28$
126. $2x^3 - 5x^2 + 9x - 20$
127. $2x^3 - 8x^2 + 3x + 3$
 $\frac{1}{2}(2x + 4)(x - 3)$
128. $\frac{1}{2}(2x^2 - 2x - 12)$
 $x^2 - x - 6$
129. $2x^2 - 2x - 12$
130. $-1/5, 3$
131. $1/2, -5$
132. -5
133. 7
134. $0, -2, 4$
135. $-5, 3$
136. $0, -5$
137. $0, 4$
138. $3/7, 4, 7/3$
139. $5/3, 5, 3/4$
140. $3x$
141. $7x$
142. $2y$
143. $3x$
144. $3x(x+3)(x-3)$
145. $2x(x-25)$
 $2y^2(y^2 - y - 6)$
146. $2y^2(y-3)(y+2)$
 $4y^2(y^2 + 3y - 10)$
147. $4y^2(y+5)(y-2)$
 $2(y^2 - 8y + 16)$
148. $2(y-4)(y-4)$
or $2(y-4)^2$
149. $3(y^3 - 10y + 25)$
 $(y-4)(y+3) = 0$
150. $y = 4, y = -3$

151. $(y+7)(y+3) = 0$
 $y = -7, y = -3$
152. $2, 5$
 $(y-4)(y+3) = 0$
153. $y = 4, y = -3$
154. $0, 6$
155. $0, 8$
156. $(x-4)$
157. $(x-3)$
158. DE
159. BD
160. AH
161. BG
162. CF
163. BG
164. I
165. AH
166. CF
167. DE
- 168.