

Answers to Playbook Problems



Algebraic Expressions + Equations

34. 20
35. 1
41. 120
45. 32
49. 1
55. 200
62. 5
67. 50
76. 15 or 15.00
86. 337
87. 3 or 3.00
94. 78
96. -1
109. 10
111. 1740
121. 6
122. 10
130. 80
142. Tuesday
147. 26
151. 9
161. 60
176. 260
186. 134
201. 4.09
217. -2
231. $2\sqrt{3}$
237. 5.6
245. 3
246. 130



Coordinate Geometry

21. 5
22. 16
23. (7, -4)
24. 5
25. (-3, 5)
26. (10, 2)
27. 8
28. 55
29. $87/4$
30. $2\sqrt{17}$
46. 36
100. 12
123. 30
129. 90
148. 18
158. 70



General Math

52. .52
63. 8:53
69. 364
174. 87 or 87.00
203. 8:48



Logic

31. 7
40. 580
72. 392 or 392.00
124. 414
137. 13
163. 121
171. 252
200. 120
221. 17



Measurement

1. 12
2. 16
3. 3
4. 44.3
5. 4.2
6. 13
7. $8\frac{1}{2}$
8. 42
9. 0.028
10. 5
42. 36
61. 73
81. 18
97. 87
102. 555
112. 3:52
248. 660



Number Theory

32. $4\frac{1}{6}$
37. 26
39. 50
44. 4
59. 13
64. 29
73. 52,413
74. 108
79. $11/29$
88. 101
98. 8217902
105. 12
107. $10\sqrt{5}$
113. 15
114. 590
117. 7
127. 6
131. 11
134. 11
145. 4
167. 8
173. 8352
183. 7
184. 12
188. 7
197. 18
225. 4
228. 225
243. 2,073,600



Percents + Fractions

47. $50/3$
50. 44
51. 36
65. 20 or 20.00
101. $6\frac{2}{3}$
143. 144
198. 17.2
205. 5
209. 31
219. 1216.35
241. 72
247. $6/5$



Plane Geometry

38. 1
56. $2\frac{1}{4}$
58. 6
60. 119
68. 27
70. 176
77. $15/2$
78. 50
80. 9
82. $1/2$
84. 17
90. 35
110. 126.5



**Plane
Geometry
(continued)**

120. 70
125. 12.0
126. 1/4
133. 18
136. $2\sqrt{13}$
144. 24
146. 3
150. 13
154. $\sqrt{2019}$
166. 55
180. $48\sqrt{3}$
181. 240
187. 135
189. 83
193. 60
196. $5/2$
211. 3.5
220. $\sqrt{3/3}$
230. $3\sqrt{15}$
233. 21.6
236. $12\sqrt{15}$
240. $8 + \sqrt{73}$ or $\sqrt{73} + 8$
50. $6\sqrt{6}$



**Probability,
Counting +
Combinatorics**

11. $4\frac{1}{3}$
12. 12.75
13. 3
14. $97/13$
15. 23.3
16. 20.5
17. 1.2
18. 2.1
19. 0
20. 100
33. $1/2$
53. 24
83. $7/15$
99. 28
103. 242
104. $13/32$
106. 16
119. $19/108$
138. 22
141. 252
152. 55
157. $5/8$
164. $1/3$
169. $51/100$
170. 12
210. 72
213. 18,144,000
214. 47
223. 113,400
238. 0.176



**Problem
Solving (Misc.)**

57. 3
91. 15
92. 25
162. 50
218. 33,554,432
232. 3205.53
234. 11
244. 364



**Proportional
Reasoning**

43. 22
54. 22
71. 69 or 69.00
89. 35
135. 40
155. 20
165. $1/4$
172. 57
177. 28.3
178. 3.4
185. 1091
190. 32
194. 481
206. 2166
207. 6.54
215. 10
224. 2096.40
227. 1103
229. 56
239. 0.08



**Sequences,
Series +
Patterns**

93. 3
132. 300
139. 28
156. $125/4$
160. -102
195. 89
222. 145
235. 121
249. 7



**Solid
Geometry**

6. 105
116. 40
153. $12\frac{2}{3}$
182. 8
191. 72
192. $1/18$
199. 241.3
202. 2.03
208. 203 or 203.00
212. $2/9$
242. 150.7



**Statistics +
Data**

48. $289/576$
66. 24
75. 8
85. 1878
95. 2
108. 433
115. 555
118. 27
128. 96
140. 5000
149. 48
159. 10
168. 15
175. 90
179. 10.87
204. 1.44
216. 78
226. 7.8