Pi-Rates Interscholastic Spring 2024
Competition Answers

1. 150
2. 4/3
3. c = 15
4. $45 per hour
5. x = -3
6. 25
7. x > 5/2 OR x > 2.5
8. x = 5
9. 35°F
10. 67
11. 60 weeks
12. 73
13. 35
14. 1331 un^3
15. $24x^3 + 48x^2$
16. 12.2
17. $3.08
18. 152 un^2
19. 5 red tickets and 35 blue tickets
20. 63
21. 150 minutes
22. x = 14/5 OR x = 2.8
23. 3
24. (16,27)
25. (0, -20)
26. -16x + 25
27. $196000
28. 22 + 1/4
29. 54
30. 10x - 20
31. 1901484
32. 455 un^3
33. x = 26/5 OR x = 5.2
34. x = 5
35. x = 2
36. x = 30
37. x = 0 and x = 2/3 and x = 2
38. 128 marbles
39. x > 3/2 OR x > 1.5
40. (0.25, 2.25)
41. 8
42. (0, -7)
43. a = 15
44. Undefined
45. 169π
46. 13.5 hours
47. 1617 + 1/4
48. 5 un x 10 un
49. Infinity OR ∞
50. -40°C
51. 2 seconds
52. 16 and 18
53. $24565
54. 80
55. x = 4
56. 23
57. 15
58. 129
59. 3
60. 70 un^2
61. x = -33