
MATHCOUNTS®

2019
■ State Competition ■
Answer Key

The appropriate units (or their abbreviations) are provided in the answer blanks.

Note to coordinators: Answers to the Tiebreaker Round problems appear in the Tiebreaker Round Booklet.

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Sprint Round

1. 20 times

2. 11

3. $\frac{3}{10}$

4. \$ 96 or 96.00

5. 50 points

6. 3 cm

7. 7

8. 6 units²

9. 2

10. 6

11. 2024

12. 12 miles

13. 15

14. 28

15. 9 feet

Sprint Round

16. 41

17. 36

18. 5

19. $-\frac{9}{8}$

20. -10

21. $\frac{1}{2}$

22. 30 m/s

23. 72

24. $\frac{2}{3}$

25. $\frac{7 - 2\sqrt{5}}{\text{units}}$
or $-2\sqrt{5} + 7$

26. $\frac{5\sqrt{6}}{3}$ cm

27. 555π cm³

28. 24 units

29. $\frac{16}{91}$

30. 7 units

Target Round

1. 32 feet

3. 33.7 %

5. 115.397 points

7. $\frac{27}{56}$

2. 45 units²

4. 44 integers

6. 196 cm²

8. 1

Team Round

1. 6

2. 11

3. 25

4. 31 years

5. 4082 M&Ms

6. 30

7. $\frac{1}{16}$

8. $\frac{3}{35}$

9. $2\sqrt{17}$ units

10. 41.28 %

Countdown Round

1. 18

2. 26 (seconds)

3. 200

4. 8 (integers)

5. 2 (dollars)

6. 8

7. 66

8. 6 (coins)

9. 6 (integers)

10. 8 (ways)

11. 21

12. 1

13. $1\frac{1}{2}$

14. 0 (percent)

15. 80 (dollars)

16. 23 (integers)

17. 5 (circles)

18. 6 (white balls)

19. 7 (prices)

20. $8\sqrt{15}$ (cm³)

21. 2

22. 100 (percent)

23. 7.6 (pounds)

24. 10 (inches)

25. 413

26. 180

27. 68 (hours)

28. 89 (pennies)

29. 85 (percent)

30. 120 (degrees)

31. 26 (baseballs)

32. $\frac{2}{3}$

33. $\frac{7}{36}$

34. 21 (inches)

35. 0.064 (liters)

36. 31

37. 18

38. $\frac{2}{\pi}$ (cents)

39. 10

40. 41

Countdown Round

41. $\frac{400}{\pi}$

42. $\frac{3}{\pi}$

43. 11

44. 3

45. 8 (units²)

46. -5

47. $\frac{1}{3}$

48. 560,000,000 (dollars)

49. 420

50. 1.4 (units)

51. $\frac{1}{190}$

52. $18\sqrt{2}$

53. 26 (integers)

54. 255

55. 1

56. 30 (pounds)

57. 17 (competitors)

58. 4 (integers)

59. 1

60. 15

61. 630

62. 10 (ways)

63. 132

64. 16

65. $\frac{4}{35}$

66. 128

67. 983

68. 50 (integers)

69. -3

70. 7 (integers)

71. $4\sqrt{2}$ (km)

72. 12

73. 67

74. $\frac{1}{30}$

75. $\frac{121}{9}$

76. -3

77. 402

78. 49

79. 48

80. $\frac{7}{6}$