MATHCOUNTS®

2018
■ 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.

Sprint Round

1. __10__

2. __3__ integers

3. __61__

4. __20__ units

5. __24__

6. __5__ baskets

7. __160__ chips

8. $\dfrac{1}{6}$

9. __3__

10. __8__

11. $\dfrac{7}{9}$

12. __8__

13. __29__

14. $\dfrac{1}{8}$

15. __40__ mi/h

Sprint Round

16. $\dfrac{38}{15}$

17. __225__ points

18. __891__

19. __72__ ways

20. __9__

21. __77__ points

22. __2__

23. $\dfrac{9}{40}$

24. __1__

25. $\dfrac{1}{6}$

26. __3,998,000__

27. $\dfrac{19}{54}$

28. __33.3__ percent

29. __11__

30. $\dfrac{7}{19}$

Target Round

1. $ 450
    or 450.00

2. 16   percent

3. 80   bigons

4. $\dfrac{6\sqrt{29}}{5}$ cm

5. 6.2

6. 16

7. 21   cm

8. Page 265

Team Round

1.   __38.5__

2. $\dfrac{7}{15}$

3.   __2__

4. $\dfrac{22}{7}$ km

5.   __5.54__ percent

6.   __9__

7.   __0.634__ units

8. $\dfrac{24}{253}$

9.   __4580__ m³

10.   __2526__

Countdown Round

1. 3

2. 10 (integers)

3. 0.153

4. 28

5. 12

6. 1187 (mm)

7. 6

8. $\dfrac{1}{2}$

9. 549.5

10. 6 (cases)

11. $\dfrac{4}{5}$

12. 4 (right triangles)

13. $\dfrac{7}{307}$

14. 4

15. 41 (dollars)

16. 105 (ways)

17. 25

18. 1

19. $\dfrac{1}{3360}$

20. $\dfrac{1}{3}$

21. $\dfrac{1}{4}$

22. $\dfrac{5}{11}$

23. 3

24. 84

25. 6 (integers)

26. 191 (cm)

27. 65 (points)

28. 32 (triangles)

29. 48

30. 4030 (inches)

31. 40

32. 2

33. $\dfrac{7}{128}$

34. 24 (units)

35. 35 (years)

36. 6

37. 857

38. −16

39. 2

40. 40 (units)

Countdown Round

41. 51

42. 3

43. 2.35

44. 100 (degrees)

45. 1

46. −9

47. −4

48. 10 (cm)

49. 2025

50. 622 (units²)

51. 27

52. 12

53. 58

54. 32 (ft²)

55. 7 (km/h)

56. 555

57. 15 (minutes)

58. 6 (diagonals)

59. −1

60. 500

61. $17\sqrt{2}$

62. 9

63. 111

64. −1980

65. 100 (degrees)

66. 30

67. 15 (units²)

68. $2\sqrt{5}$

69. $\dfrac{3}{7}$

70. −12

71. 4 (ostriches)

72. $\dfrac{3}{4}$

73. $\dfrac{3}{20}$

74. 2 (ways)

75. $\dfrac{\sqrt{3}}{2}$

76. $\dfrac{10}{4\pi}$

77. $\dfrac{3}{3}$ (in³)

78. 201

79. 140 (degrees)

80. 15