
MATHCOUNTS®

2017
■ 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. 64 inches

2. 6

3. 2

4. \$ 766 or
766.00

5. 6008

6. 45 degrees

7. 16.7 percent

8. 6 baskets

9. 315 cm³

10. $\frac{10}{9}$

11. 103,423 grains

12. 156

13. 38 in²

14. 61 ways

15. 27

Sprint Round

16. 100

17. 432

18. -3

19. $\frac{15}{2}$

20. 56

21. 696 numbers

22. 1 inches

23. 6528

24. $\sqrt{10}$ units

25. 215

26. $\frac{5}{6}$

27. 455 ways

28. 4

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

30. 32

Target Round

1. $\underline{1331}$

3. $\frac{7}{\underline{30}}$

5. $\frac{87}{\underline{4}}$

7. $\underline{458}$ units²

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

4. $\underline{88}$

6. $\underline{138}$ units²

8. $\frac{2\sqrt{5}}{\underline{5}}$ units

Team Round

1. 162

2. 100 kg

3. 19 triples

4. 16

5. 12

6. 255,025 ways

7. $\frac{360}{7}$ degrees

8. 11

9. 176 feet

10. $\frac{920}{117}$ units²

Countdown Round

1. $\frac{2}{3}$ _____

2. $\frac{2}{9}$ _____

3. $\frac{21}{2}$ _____

4. 6 _____

5. 500 (numbers) _____

6. 27 (m³) _____

7. 3333 (dollars) _____

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9. 580 (people) _____

10. $7\sqrt{3}$ (units) _____

11. 1 _____

12. 8 _____

13. 4 _____

14. -7 _____

15. 0.8713 _____

16. 10 (combinations) _____

17. 4 _____

18. $\frac{25}{4}$ (units) _____

19. 210 _____

20. 114 (degrees) _____

21. 1 _____

22. 1024 _____

23. 24 (years) _____

24. 60 (units) _____

25. 80 _____

26. 18 (integers) _____

27. 4034 _____

28. 91 _____

29. 7 _____

30. 18 _____

31. $\frac{1}{2}$ _____

32. 10 _____

33. 38 _____

34. 3 _____

35. 32π (units²) _____

36. 12 _____

37. Tuesday _____

38. 38 _____

39. 21 _____

40. $\frac{10}{11}$ _____

Countdown Round

41. 24

42. 12

43. $\frac{7}{5}$ (units)

44. $\frac{9}{9}$

45. 51

46. $3\sqrt{7}$ (cm)

47. 2

48. -8

49. 6

50. 10 (in³)

51. 500,000 (people)

52. 15 (degrees)

53. $\frac{0}{1}$

54. $\frac{4000}{9}$

55. $\frac{2}{2}$

56. 36 (numbers)

57. 65,536

58. 1

59. 12.5 (percent)

60. 8

61. 40 (triangles)

62. 425,925

63. 8

64. 15.012

65. $\frac{7.2 \text{ (mL)}}{243}$

66. $\frac{4}{4}$ (cm)

67. 1

68. 6 (ordered pairs)

69. 17

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

71. (April) 26 or 26th

72. 8

73. -2

74. 55

75. 98

76. 2

77. 160 (units²)

78. 30 (degrees)

79. 3

80. 18 (years old)