
MATHCOUNTS®

2015
■ 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 weeks

2. 70

3. 27

4. 15

5. 10 degrees

6. 9

7. 44 downloads

8. 86 feet

9. $\frac{27}{64}$

10. 832 units

11. 40

12. $\frac{9}{16}$

13. -2

14. 0

15. 89 ways

16. 2 units

17. 50 gumballs

18. 4

Sprint Round

19. 28.5 cm²

20. 143

21. $\frac{5}{19}$

22. 10 small bars

23. 47

24. 67.5 degrees

25. 4 people

26. 12,288 arrange-
ments

27. $\frac{7}{6}$ units²

28. $3\sqrt{5}$

29. $\frac{89}{245}$

30. 42 ways

Target Round

1. 5 years old

3. 9

5. 2181

7. 33 years old

2. 13

4. 12

6. $24\sqrt{3}$ in³

8. 1.22

Team Round

1. $\frac{12}{17}$ _____

2. 28 sets _____

3. $4\sqrt{3}$ cm² _____

4. 6 minutes _____

5. $\frac{11}{2}$ _____

6. 9 students _____

7. 13 units _____

8. 8 convex
sequences _____

9. 33 _____

10. 80 _____

Countdown Round

1. $\underline{96 \text{ (percent)}}$

2. $\underline{12}$

3. $\underline{0}$

4. $\underline{\frac{3\sqrt{3}}{180} \text{ (cm)}}$

5. $\underline{\frac{180}{7} \text{ (degrees)}}$

6. $\underline{(\$) 12.28}$

7. $\underline{32 \text{ (ft/s)}}$

8. $\underline{84}$

9. $\underline{40 \text{ (days)}}$

10. $\underline{1}$

11. $\underline{20 \text{ (inches)}}$

12. $\underline{210 \text{ (units}^2\text{)}}$

13. $\underline{35}$

14. $\underline{13 \text{ (integers)}}$

15. $\underline{10}$

16. $\underline{11.3 \text{ (percent)}}$

17. $\underline{\frac{35}{4}}$

18. $\underline{\frac{3}{3}}$

19. $\underline{3 \text{ (degrees)}}$

20. $\underline{1}$

21. $\underline{278}$

22. $\underline{\sqrt{2} \text{ (inches)}}$

23. $\underline{55}$

24. $\underline{4 \text{ (participants)}}$

25. $\underline{641}$

26. $\underline{9 \text{ (laps)}}$

27. $\underline{\frac{\sqrt{119}}{2}}$

28. $\underline{4\pi \text{ (units}^2\text{)}}$

29. $\underline{4096}$

30. $\underline{25 \text{ (people)}}$

31. $\underline{78 \text{ (inches)}}$

32. $\underline{100 \text{ (cards)}}$

33. $\underline{121 \text{ (units}^2\text{)}}$

34. $\underline{3,436,500}$

35. $\underline{781}$

36. $\underline{150 \text{ (percent)}}$

37. $\underline{120}$

38. $\underline{19}$

39. $\underline{2.5 \text{ (seconds)}}$

40. $\underline{\frac{\sqrt{2}}{2} \text{ (units)}}$

Countdown Round

41. $\frac{8}{15}$ _____

42. 1.0 _____

43. 4 _____

44. $\frac{7}{64}$ _____

45. $\frac{9}{5}$ _____

46. $\frac{11}{11}$ _____

47. 20 (percent) _____

48. $\frac{1}{16}$ _____

49. 30 _____

50. 23 _____

51. 18 _____

52. $\frac{7}{12}$ _____

53. 4 _____

54. 15 _____

55. 16 (integers) _____

56. 511 _____

57. $-\frac{b}{a}$ _____

58. 0 _____

59. 17 _____

60. 2012 _____

61. -8.4 _____

62. 21 _____

63. 362 _____

64. 40 (cm²) _____

65. 6 (cm) _____

66. 55 (percent) _____

67. 8 (positive integers) _____

68. 120 _____

69. 17 (amounts) _____

70. 15 _____

71. 73 (percent) _____

72. 24 (percent) _____

73. $64,000$ _____

74. 0 _____

75. 210 (students) _____

76. 5600 _____

77. 8 _____

78. 20 _____

79. 102 (degrees) _____

80. 1728 (IDs) _____

