
MATHCOUNTS®

2005

■ Chapter Competition ■
Answer Key

New this year: 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. 11,535 miles

2. 72 %

3. 85

4. 1050 calories

5. 2400 sq cm

6. 406

7. $\frac{13}{27}$

8. 0.4 or .4 miles

9. 3 boxes

10. 12 combinations

11. 25

12. 120 tiles

13. 18 square units

14. 60 cents

15. 15 units

16. 980 farthings

17. 226

18. (-2, 3)

19. 5

Sprint Round

20. E

25. -7

21. 85 points

26. 164π square feet

22. 5 ordered pairs

27. 44

23. 123

28. $\frac{81}{64}$

24. 48 years

29. 25,200 ways

30. 59

Target Round

1. 15

3. \$ 148.31

5. 8

7. 33 nickels

2. 2 colors

4. 3

6. 8.58 sq feet

8. 657 pennies

Team Round

1. $\frac{1}{200}$

2. 153

3. 200 minutes

4. 36 triangles

5. 4 integers

6. 15.708 meters

7. 0.86 or .86

8. 1681

9. 0.039 or .039

10. 22 red cards

Countdown Round

1. 56 (cents)

2. 4 (numbers)

3. 68

4. (June) 20

5. 45 (square feet)

6. 14 (diagonals)

7. $162x^4$

8. 40

9. 85 (feet)

10. 12

11. 3

12. 9 (square units)

13. 28

14. 60 (degrees)

15. 36.75

16. 25

17. 2 (colors)

18. 8

19. 1320 (feet)

20. 15

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

22. 14

23. 3

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

25. 68 (square centimeters)

26. Saturday

27. 6 (days)

28. 12

29. 22

30. 121 (pieces)

31. 492

32. 17 (laps)

33. $20\sqrt{13}$ (meters)

34. 12 (miles)

35. -10

36. -8.5

37. 11

38. -2.5

39. $\frac{1}{8}$

40. 3 (values)

Countdown Round

41. -1

42. $127\frac{1}{12}$

43. 72 (hours)

44. 600

45. 6 (square centimeters)

46. $\frac{1}{8}$

47. 50 (Americans)

48. 30,000 (years)

49. -114

50. 0.5 or .5

51. 81

52. 72

53. 98

54. $10x\sqrt{21x}$

55. 1

56. 1

57. 99

58. 25 (percent)

59. 2 (students)

60. 1280

61. 15 (girls)

62. 96 (feet)

63. 10 (percent)

64. $\frac{60}{3}$

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

66. $\frac{1}{900}$

67. 6

68. 200 (square units)

69. 2

70. 75

71. 31 (square units)

72. 8 (factors)

73. 10 (multiples)

74. 18

75. 29

76. 149

77. -2

78. 19

79. -7

80. 302