
MATHCOUNTS®

2016
■ Chapter 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. 123

2. 7

3. 1

4. 153

5. 81

6. \$11.50

7. 144 degrees

8. \$5 or 5.00

9. $20\sqrt{2}$ inches

10. 852

11. 7

12. 25

13. $\frac{17}{41}$

14. 10

15. 100π units²

16. 19

17. 20 percent

18. 12

Sprint Round

19. 5

20. 5 sets

21. 12

22. $\frac{3}{5}$

23. 64 inches

24. 15

25. 140 degrees

26. 385

27. 66 minutes

28. $\frac{1}{9}$

29. $\frac{4}{15}$ mi/h

30. 88088

Target Round

1. $\frac{\$ 1125}{\text{or } 1125.00}$

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

5. $\frac{18}{5}$

7. $\frac{21}{\text{marbles}}$

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

4. $\frac{1188}{\text{units}^2}$

6. $\frac{1309}{\text{seconds}}$

8. $\frac{39}{128}$

Team Round

1. 29 percent

2. $\frac{1}{4}$

3. 146,235

4. 250π feet

5. 2160

6. 18

7. 16.3 ml

8. 24 numbers

9. 64 paths

10. 24 tokens

Countdown Round

1. $\underline{0}$

2. $\underline{501}$

3. $\underline{8.4 \text{ (inches)}}$

4. $\underline{9 + 2\sqrt{3} \text{ or } 2\sqrt{3} + 9 \text{ (units)}}$

5. $\underline{\sqrt{5}}$

6. $\underline{6}$

7. $\underline{6 \text{ (years old)}}$

8. $\underline{11 \text{ (rolls)}}$

9. $\underline{18}$

10. $\underline{\frac{9 \text{ (zeros)}}{5}}$

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

12. $\underline{1200}$

13. $\underline{7}$

14. $\underline{\frac{51 \text{ (cm)}}{59}}$

15. $\underline{\frac{37}{37}}$

16. $\underline{\frac{14 \text{ (times)}}{5}}$

17. $\underline{\frac{9}{9}}$

18. $\underline{9}$

19. $\underline{10 \text{ (ways)}}$

20. $\underline{289 \text{ (values)}}$

21. $\underline{\frac{19}{9}}$

22. $\underline{\frac{10}{10}}$

23. $\underline{28 \text{ (mm)}}$

24. $\underline{10 \text{ (megabytes)}}$

25. $\underline{7531}$

26. $\underline{\frac{4800 \text{ (meters)}}{15}}$

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

28. $\underline{119}$

29. $\underline{4 \text{ (ways)}}$

30. $\underline{3}$

31. $\underline{\frac{166 \text{ (integers)}}{5}}$

32. $\underline{\frac{24}{24}}$

33. $\underline{18 \text{ (inches)}}$

34. $\underline{27}$

35. $\underline{70}$

36. $\underline{9 \text{ (ft}^3\text{)}}$

37. $\underline{12 \text{ (sums)}}$

38. $\underline{90 \text{ (dollars)}}$

39. $\underline{115}$

40. $\underline{125 \text{ (units}^3\text{)}}$

Countdown Round

41. $\frac{71}{24}$ _____

42. $\frac{10 \text{ (mi/h)}}{5}$ _____

43. $\frac{8}{8}$ _____

44. 12 (inches) _____

45. -10 _____

46. 4032 _____

47. $2\frac{1}{3} \text{ (miles)}$ _____

48. $\frac{1}{27}$ _____

49. $20 \text{ (yards/minute)}$ _____

50. 9600 (meters) _____

51. 72 (minutes) _____

52. 4 _____

53. 45 (yards) _____

54. 90 (integers) _____

55. 51 (minutes) _____

56. 13 (miles) _____

57. $\frac{50 \text{ (inches)}}{5}$ _____

58. $\frac{8}{8}$ _____

59. 6 _____

60. 59.61 _____

61. 93 _____

62. 10 (students) _____

63. $\frac{21 \text{ (children)}}{2}$ _____

64. $\frac{5}{5}$ _____

65. 72 (ml) _____

66. $8\frac{2}{3} \text{ (inches)}$ _____

67. $-1 \text{ (}^\circ\text{F)}$ _____

68. $76 \text{ (}^\circ\text{F)}$ _____

69. $36\sqrt{3} \text{ (units}^2\text{)}$ _____

70. 144 _____

71. 42 _____

72. 16 (matches) _____

73. 4 (candies) _____

74. 15 (questions) _____

75. 68 (cups) _____

76. 3 (percent) _____

77. 34 _____

78. 5 (inches) _____

79. $64,000 \text{ (dollars)}$ _____

80. $3 \text{ (}\heartsuit\text{)}$ _____

