
MATHCOUNTS®

2020
■ 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. $\underline{110}$ degrees

2. $\frac{1}{\underline{4000}}$

3. $\underline{5}$

4. $\underline{16}$ units

5. $\frac{45}{\underline{\hspace{1cm}}}$ square tiles

6. $\underline{11}$ miles

7. $\underline{48}$ inches

8. $\underline{8}$

9. $\underline{14}$

10. $\underline{15}$ units

11. $\underline{135}$ minutes

12. $\underline{45}$ %

13. $\underline{10}$

14. $\underline{14}$ ways

15. $\underline{86}$ units²

Sprint Round

16. $\frac{160}{9}$ _____

17. $8\sqrt{3}$ in² _____

18. 13 _____

19. 6 _____

20. 990 $\frac{\text{positive}}{\text{integers}}$ _____

21. $9,362,841,705$ _____

22. $\frac{34}{5}$ _____

23. $91,573$ _____

24. 101 _____

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

26. $\frac{3}{4}$ _____

27. 923 $\frac{\text{positive}}{\text{integers}}$ _____

28. $33,333,335$ _____

29. $\frac{\pi}{27}$ _____

30. 64 _____

Target Round

1. 52 days

3. $\frac{5}{8}$

5. 61 liars

7. 53.5 cm

2. $2\frac{5}{21}$

4. 2

6. 838 sequences

8. 45 times

Team Round

1. 20,048

2. 2250 meters

3. 42 %

4. 53 degrees

5. $-\frac{1}{3}$

6. (11 , 6)

7. $\frac{30}{13}$ feet

8. 25 integers

9. 2,702,700 ways

10. 0.283 %

Countdown Round

1. $\frac{59}{\quad}$

2. $\frac{18}{\quad}$

3. $\frac{2}{7}$

4. $\frac{\quad}{9}$

5. $\frac{60 \text{ (unit cubes)}}{\quad}$

6. $\frac{5 \text{ (years)}}{\quad}$

7. $\frac{3 \text{ (minutes)}}{\quad}$

8. $\frac{3.5}{\quad}$

9. $\frac{1000 \text{ (students)}}{\quad}$

10. $\frac{54 \text{ (units}^2\text{)}}{\quad}$

11. $\frac{\text{(Day) } 14}{\quad}$

12. $\frac{24\sqrt{3} \text{ (units)}}{\quad}$

13. $\frac{50}{\quad}$

14. $\frac{34 \text{ (degrees)}}{\quad}$

15. $\frac{74}{\quad}$

16. $\frac{23}{\quad}$

17. $\frac{18 \text{ (ordered triples)}}{\quad}$

18. $\frac{5 \text{ (miles)}}{\quad}$

19. $\frac{54}{\quad}$

20. $\frac{2 \text{ (cents)}}{\quad}$

21. $\frac{16 \text{ (cm)}}{\quad}$

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

23. $\frac{40 \text{ (fabric squares)}}{\quad}$

24. $\frac{16}{2}$

25. $\frac{\quad}{5}$

26. $\frac{0}{\quad}$

27. $\frac{132}{\quad}$

28. $\frac{12 \text{ (ways)}}{\quad}$

29. $\frac{8000 \text{ (dollars)}}{\quad}$

30. $\frac{2520 \text{ (ways)}}{\quad}$

31. $\frac{500}{\quad}$

32. $\frac{1 \text{ (miles)}}{\quad}$

33. $\frac{48\pi \text{ (cm}^3\text{)}}{\quad}$

34. $\frac{3}{\quad}$

35. $\frac{1089}{13}$

36. $\frac{\quad}{16}$

37. $\frac{100 \text{ (units}^2\text{)}}{1}$

38. $\frac{\quad}{4 \text{ (ft}^3\text{)}}$

39. $\frac{6 \text{ (m/s)}}{\quad}$

40. $\frac{6}{\quad}$

Countdown Round

41. 8

42. 0 (ways)

43. 9 (cents)

44. 60.5

45. 32 (units)

46. 3

47. 1666.65

48. 2 (ways)

49. 12,201

50. $\frac{3}{10}$

51. 30 (in²)

52. 50

53. 6

54. 500,000

55. 139 (amounts)

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

57. 5 (minutes)

58. 3

59. 37

60. 12 (ordered pairs)

61. $-\frac{3}{2}$

62. 88 (meters)

63. $\frac{2}{5}$

64. 24

65. 9.6 (years)

66. 5 (mi/h)

67. $\frac{169}{42}$

68. 13

69. 5.25

70. 74 (years)

71. -11

72. $\frac{27}{1}$

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

74. 57,500 (dollars)

75. 40

76. 6

77. 11

78. 493

79. 12

80. 1