

MATHCOUNTS®

2023 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. $\underline{\$30 \text{ or } 30.00}$

2. $\underline{7}$

3. $\underline{\frac{14}{15}}$

4. $\underline{\$25 \text{ or } 25.00}$

5. $\underline{20 \text{ cm}^2}$

6. $\underline{36 \%}$

7. $\underline{2}$

8. $\underline{10}$

9. $\underline{-1}$

10. $\underline{62}$

11. $\underline{\frac{13}{12}}$

12. $\underline{18}$

13. $\underline{32 \text{ fish}}$

14. $\underline{20 \text{ marbles}}$

15. $\underline{7 \text{ tea parties}}$

Sprint Round

16. $\frac{1:58 \text{ a.m.}}{\text{or } 01:58}$

17. $\frac{5}{}$

18. $\frac{294}{}$

19. $\frac{6}{}$

20. $\frac{40 \text{ minutes}}{}$

21. $\frac{11 \text{ lengths}}{}$

22. $\frac{102.3}{}$

23. $\frac{24 \text{ cm}}{}$

24. $\frac{23}{}$

25. $\frac{59 \text{ cupcakes}}{}$

26. $\frac{\sqrt{30}}{8}$

27. $\frac{36\sqrt{7} \text{ cm}^3}{}$

28. $\frac{-7}{}$

29. $\frac{23 \text{ cm}}{}$

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

Target Round

1. \$1.50

3. -4

5. 148 blocks

7. 576π m²

2. 1.21 seconds

4. 22.1 cm²

6. $\frac{6}{91}$

8. $\frac{17}{32}$

Team Round

1. 35,040 kè

2. 7 buses

3. 30

4. 500 residents

5. 83

6. 1.4

7. 11 triangles

8. 24 units²

9. $\frac{18}{25}$

10. 16 integers

Countdown Round

1. $\frac{77}{60}$

2. $\frac{98 \text{ (dollars)}}{1}$

3. $\frac{51 \text{ (\%)}}{1}$

4. $\frac{50 \text{ (triangles)}}{1}$

5. $\frac{288}{9}$

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

7. $\frac{21}{1}$

8. $\frac{10 \text{ (violets)}}{1}$

9. $\frac{150 \text{ (minutes)}}{1}$

10. $\frac{2488 \text{ (digits)}}{1}$

11. $\frac{9 \text{ (dollars)}}{1}$

12. $\frac{75 \text{ (\%)}}{1}$

13. $\frac{17}{38}$

14. $\frac{987,789}{1}$

15. $\frac{20}{1}$

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

17. $\frac{2}{3} \text{ (cups)}$

18. $\frac{6}{1}$

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

20. $\frac{36 \text{ (cm}^2\text{)}}{1}$

21. $\frac{40 \text{ (dollars)}}{1}$

22. $\frac{85}{1}$

23. $\frac{10 \text{ (kg)}}{1}$

24. $\frac{7}{1}$

25. $\frac{3 \text{ (years)}}{1}$

26. $\frac{18.75}{1}$

27. $\frac{25.5}{1}$

28. $\frac{40 \text{ (meters)}}{1}$

29. $\frac{42 \text{ (minutes)}}{1}$

30. $\frac{2023}{1}$

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

32. $\frac{13 \text{ (servings)}}{1}$

33. $\frac{43}{2}$

34. $\frac{18 \text{ (sundaes)}}{1}$

35. $\frac{2100 \text{ (dollars)}}{1}$

36. $\frac{120 \text{ (minutes)}}{1}$

37. $\frac{21}{1}$

38. $\frac{1.2 \text{ (\%)}}{1}$

39. $\frac{75 \text{ (degrees)}}{1}$

40. $\frac{9 \frac{3}{8} \text{ (cups)}}{1}$

Countdown Round

41. 1

42. 240

43. $\frac{1}{12}$

44. 10 (%)

45. (day) 22

46. $\frac{4}{3}$

47. 9 (integers)

48. 123,456,790

49. 19 (cans)

50. 40 (points)

51. 5

52. 11 (letters)

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

54. 5 (dollars)

55. 11 (years old)

56. 120 (degrees)

57. 372

58. 5 (hours)

59. 0

60. -4

61. 28 (dollars)

62. 8 (pets)

63. 170 (%)

64. 4

65. 4 (minutes)

66. 0

67. (floor) 13

68. 9 (dollars)

69. 11

70. 25 (%)

71. 3 (miles)

72. 24 (zeros)

73. 8 (ways)

74. Monday

75. 59

76. 831

77. 3 (ft²)

78. 6 (pizzas)

79. 15 (years old)

80. 26 (miles)

