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# MATHCOUNTS®

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2017  
■ Chapter Competition ■  
Answer Key

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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. 21

2. 300 mL

3. 130

4. 22

5. 2.5 ounces

6. 720 feet

7. 94

8. 26 students

9. 0

10. 6 units

11. 80 students

12. 23 triangles

13. 15 cats

14. 12 inches

15. 9

## Sprint Round

16. 21

17. 25 percent

18. 3 large jugs

19. 0.005 or .005

20. -5

21. 5

22. \$9.75

23. 26 boys

24. 13,321

25. 11 pairs

26. 15

27. 36

28. 24 in<sup>2</sup>

29.  $\frac{23}{2048}$

30. 55 ordered  
quintuples

## Target Round

1. 6 units<sup>2</sup>

3. 79 tickets

5. 9 pounds

7. 2.1 ft/s

2. 1.917

4. 10

6. 11

8. 0.88 or .88

## Team Round

1. 19

2. 14.75 in<sup>2</sup>

3. 96 pairs

4. 8

5. -2

6. 3

7.  $\frac{1}{49}$

8. D

9. 89

10. 30

### Countdown Round

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

2.  $\frac{16}{7}$

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

4.  $\frac{648}{\quad}$

5.  $\frac{73}{\quad}$

6.  $\frac{423}{\quad}$

7.  $\frac{62.5 \text{ (inches)}}{\quad}$

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

9.  $\frac{12 \text{ (inches)}}{\quad}$

10.  $\frac{18 \text{ (squares)}}{\quad}$

11.  $\frac{10}{\quad}$

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

13.  $\frac{\pi}{4}$

14.  $\frac{95}{\quad}$

15.  $\frac{7}{9}$

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

17.  $\frac{-9}{\quad}$

18.  $\frac{28}{\quad}$

19.  $\frac{1 \text{ (integers)}}{\quad}$

20.  $\frac{100 \text{ (times)}}{\quad}$

21.  $\frac{23 \text{ (minutes)}}{\quad}$

22.  $\frac{1009}{\quad}$

23.  $\frac{15 \text{ (cents)}}{\quad}$

24.  $\frac{60 \text{ (permutations)}}{8}$

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

26.  $\frac{30}{11}$

27.  $\frac{320 \text{ (packages)}}{\quad}$

28.  $\frac{\sqrt{10}}{\quad}$

29.  $\frac{-3}{\quad}$

30.  $\frac{81}{\quad}$

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

32.  $\frac{1233}{\quad}$

33.  $\frac{994,000}{\quad}$

34.  $\frac{22 \text{ (units}^2\text{)}}{\quad}$

35.  $\frac{144 \text{ (in}^2\text{)}}{\quad}$

36.  $\frac{-8}{\quad}$

37.  $\frac{5 \text{ (outcomes)}}{\quad}$

38.  $\frac{30}{\quad}$

39.  $\frac{12 \text{ (arrangements)}}{\quad}$

40.  $\frac{194}{\quad}$

### Countdown Round

41.  $\frac{33}{1}$

42.  $\frac{4033}{1}$

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

44.  $\frac{45 \text{ (pounds)}}{1}$

45.  $\frac{15 \text{ (questions)}}{1}$

46.  $\frac{12 \text{ (points)}}{1}$

47.  $\frac{845}{1}$

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

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

50.  $\frac{24 \text{ (cm}^2\text{)}}{1}$

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

52.  $\frac{5\sqrt{3} \text{ (units)}}{2}$

53.  $\frac{1}{5}$

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

55.  $\frac{192 \text{ (in}^2\text{)}}{2}$

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

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

58.  $\frac{25}{1}$

59.  $\frac{199,980}{1}$

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

61.  $\frac{267}{1}$

62.  $\frac{10 \text{ (arrangements)}}{1}$

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

64.  $\frac{543,195}{1}$

65.  $\frac{23 \text{ (in}^2\text{)}}{1}$

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

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

68.  $\frac{15 \text{ (feet)}}{1}$

69.  $\frac{5\sqrt{13} \text{ (units)}}{3}$

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

71.  $\frac{66 \text{ (frapts)}}{1}$

72.  $\frac{64 \text{ (cubes)}}{1}$

73.  $\frac{1}{69}$

74.  $\frac{13}{81}$

75.  $\frac{330 \text{ (cm)}}{1}$

76.  $\frac{6 \text{ (hours)}}{1}$

77.  $\frac{81}{9}$

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

79.  $\frac{15 \text{ (dollars)}}{1}$

80.  $\frac{25}{1}$