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# MATHCOUNTS®

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**2014**  
**■ 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. 13

2. \$ 10.50

3. 3 quarts

4. 16 triangles

5. 18 inches

6. 81

7. 80 bugs

8.  $20\sqrt{2}$  cm

9. 12

10.  $\frac{7}{10}$

11. 15 lines

12. \$  $\frac{9000}{9000.00}$  or 9000.00

13. 2,001,000

14. 12,000 years

15. 338

16. 10 ordered  
triples

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

18. 6 permu-  
tations

19. 16

## Sprint Round

20. ( 0 , -16)

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

22.  $\frac{5}{12}$

23.  $\sqrt{3}$  units

24. 12 units

25. 4

26.  $\frac{22}{\text{combinations}}$

27. 10

28. 11

29.  $2\sqrt{22}$  units

30.  $\sqrt{3}$

## Target Round

1. 9 marbles

3. 12 ways

5. 21

7. 6 unit  
cubes

2. 13

4. 33 quantities

6. 12 cm

8.  $3\sqrt{3}$  units<sup>2</sup>

## Team Round

1. 49 units<sup>2</sup>

6. 8 primes

2. 44.4

7. 728 integers

3. 105 routes

8. 87 points

4. 100 shirts

9. 360 integers

5. 4 years

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

## Countdown Round

1.  $\underline{56}$  (minutes)

2.  $\underline{9\pi}$  (cm<sup>2</sup>)

3.  $\underline{6}$

4.  $\underline{24}$  (pounds)

5.  $\underline{150}$  (degrees)

6.  $\underline{1}$

7.  $\underline{20}$  (dollars)

8.  $\underline{4}$  (units)

9.  $\underline{70}$  (percent)

10.  $\underline{12}$

11.  $\underline{487}$  (books)

12.  $\underline{\frac{2}{3}}$

13.  $\underline{31}$  (zeros)

14.  $\underline{20}$  (sides)

15.  $\underline{30}$  (cubes)

16.  $\underline{1}$

17.  $\underline{44}$  (dollars)

18.  $\underline{72}$  (cm<sup>2</sup>)

19.  $\underline{25}$

20.  $\underline{128}$

21.  $\underline{\frac{11}{49}}$  (inches)

22.  $\underline{\frac{20}{20}}$

23.  $\underline{-1}$

24.  $\underline{1624}$  (votes)

25.  $\underline{39}$

26.  $\underline{163}$  (pounds)

27.  $\underline{81}$  (campers)

28.  $\underline{9}$  (integers)

29.  $\underline{4}$

30.  $\underline{25}$

31.  $\underline{9}$

32.  $\underline{3}$

33.  $\underline{2010}$

34.  $\underline{2}$

35.  $\underline{228}$

36.  $\underline{\frac{1}{36}}$

37.  $\underline{15}$  (miles)

38.  $\underline{998,001}$

39.  $\underline{8}$

40.  $\underline{8}$  (pieces)

## Countdown Round

41. 30 (years old)

42. 5 (sets)

43. 76 (units)

44. 40 (pounds)

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

46. 3

47. 12 (multiples)

48. 125 (integers)

49. 1710 (customers)

50. 12

51. (2, 1)

52. 2

53. 130 (degrees)

54. 8 (cheerleaders)

55. 6561

56. 1 (values)

57. 171 (integers)

58. 21 (questions)

59. 6 (units<sup>2</sup>)

60. 43

61. 3

62. -2

63. 324 (units<sup>3</sup>)

64. 3 (units)

65.  $\frac{8}{4}$

66.  $\frac{9}{9}$

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

68. 81

69. 101

70. 1

71. 74

72. 1440 (minutes)

73. 10

74. 3

75. 18 (integers)

76. 3 (dollars)

77. 5 (intercepts)

78. 4 (locations)

79. 140 (cookies)

80. 28

