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# MATHCOUNTS®

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**2015**  
**■ 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. 6

2. 8 triangles

3. 0

4. 6

5. \$36 or 36.00

6. 3

7.  $\frac{\$600 \text{ or}}{600.00}$

8. 225

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

10. 250

11.  $\frac{\$1600 \text{ or}}{1600.00}$

12. 8 units<sup>2</sup>

13. 11

14. 8

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

16. 8 papers

17. -1

18. 1

## Sprint Round

19.  $\underline{144}$

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

21.  $\underline{\frac{16}{5}}$

22.  $\underline{63}$

23.  $\underline{4}$

24.  $\underline{1.5 \text{ units}^2}$

25.  $\underline{-8}$

26.  $\underline{-5}$

27.  $\underline{\frac{35}{128}}$

28.  $\underline{131 \text{ ordered pairs}}$

29.  $\underline{6}$

30.  $\underline{56}$

## Target Round

1. 24 rectangles

3. 29

5. 11,100

7. 60 m<sup>2</sup>

2. 342 calories

4. 2 cm

6. 49

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

## Team Round

1. 27 times

2.  $\sqrt{17}$  cm

3. 508

4. 130 degrees

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

6. 36

7. 96 degrees

8. 502 integers

9. 8 paths

10. 16 cm

## Countdown Round

1. 28

2. 15 (sides)

3. (\$)  
2.25

4. 0

5. 11

6. 0 (integers)  
25

7. 42

8. 57

9. 180 (pounds)

10. 7500

11. 720 (codes)

12. 58 (percent)

13. 150 (pounds)

14. 5 (ft/s)

15. 44

16. 15 (points)

17. 9

18. 2

19. 15

20. 5

21. 120

22. 6 (people)  
5

23. 2

24. 0 (values)

25. 2

26. 7

27. 47 (marks)

28. 60  
7

29. 120

30. 50

31. 5  
4

32. 9

33. 2  
3

34. 5  
7

35. 8

36. 0 (integers)

37. 1

38. 24

39. 2550 (dollars)

40. 13 (integers)

## Countdown Round

41.  $\frac{350}{1}$  (dollars)

42.  $\frac{27}{2}$

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

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

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

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

47.  $\frac{2047}{3}$

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

49.  $\frac{5}{7}$

50.  $\frac{10}{1}$

51.  $\frac{1100}{1}$

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

53.  $\frac{336}{1}$  (cm<sup>2</sup>)

54.  $\frac{272}{1}$  (students)

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

56.  $\frac{-2}{1}$

57.  $\frac{42}{1}$  (minutes)

58.  $\frac{0}{1}$

59.  $\frac{30}{1}$  (degrees)

60.  $\frac{13}{1}$  (miles)

61.  $\frac{6}{1}$  (dollars)

62.  $\frac{9}{1}$  (trips)

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

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

65.  $\frac{-31}{1}$

66.  $\frac{25}{1}$  (cm<sup>2</sup>)

67.  $\frac{42}{1}$  (m<sup>2</sup>)

68.  $\frac{90}{1}$

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

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

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

72.  $\frac{14}{1}$  (dollars)

73.  $\frac{4.5}{1}$  (miles)

74.  $\frac{55}{1}$  (dominoes)

75.  $\frac{4096}{1}$

76.  $\frac{6}{1}$  (digits)

77.  $\frac{896}{1}$  (cans)

78.  $\frac{-11}{1}$

79.  $\frac{7}{1}$  (dollars)

80.  $\frac{384}{1}$  (calories)

