
MATHCOUNTS®

2008

■ National 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. 16 cu feet

7. 25

13. $2\pi - 3$

2. 6 ounces

8. 2.5 children

14. 42 sq units

3. 6 points

9. 6

15. 8 points

4. 16 daps

10. 320,000 acres

16. 2

5. 79

11. 11

17. 30 interior diagonals

6. 16

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

18. 24 seconds

Sprint Round

19. $\frac{md}{3n}$ or $\frac{dm}{3n}$ days

20. 75 assignments

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

22. 37 lines

23. $\sqrt{13}$

24. 5^{12}

25. 2

26. 14 ways

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

28. 9 units

29. $\frac{14}{3}$ inches

30. $\frac{5}{128}$

Target Round

1. 42 positive
integers

3. $6\sqrt{7}$ units

5. $\frac{12}{35}$

7. 10 ways

2. 80 cents per
pound

4. 91 digits

6. 14 pairs

8. $\frac{21}{1024}$

Team Round

1. 13 squares

2. $\frac{70}{297}$

3. 157 members

4. 80 unit squares

5. 104

6. 30 games

7. 88 arrangements

8. 7.2 %

9. $\frac{8400}{\text{launch patterns}}$

10. $\frac{56}{11}$ sq units

Countdown Round

1. 7 (percent)

2. 25

3. 6 (inches)

4. 8 (adults)

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

6. 0

7. 21 (canoes)

8. 5 (miles)

9. 8000 (dollars)

10. 4

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

12. 181

13. 18

14. $-\frac{4}{5}$

15. 0

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

17. 117

18. 5

19. 40 (days)

20. 28 (police officers)

21. 16

22. 18 (cans)

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

24. $\frac{11}{100}$

25. 9