MATHCOUNTS

1990-91
School Competition
Answer Key

Optional units are indicated in parentheses. Standard abbreviations have been used for units of measure. Complete words or symbols are also acceptable. Square units/cube units may also be expressed as units^2 or units^3.

Sprint Round

1. 11	11. ($) 75 (dollars)	21. ($) 1,210 (dollars)
2. 7 (buses)	12. 52 (%)	22. $\frac{5}{11}$
3. $\frac{1}{11}$	13. 17	23. 660
4. 36 (cm)	14. 1225	24. $2\frac{2}{3}$
5. 525 (girls)	15. 70	25. $\frac{5}{9}$
6. 11	16. ($) 1 (dollar)	26. 202
7. 25 (%)	17. 32	27. 81
8. 12,345,654,321	18. 25 (%)	28. $\frac{3}{8}$
9. 10 (points of intersection)	19. 0.333	29. $16\frac{1}{2}$
10. 6	20. 14	30. 6.76×10^6 (license plate numbers)

Target Round

1. 30

2. 17 (points of intersection)

3. 5

4. 64 (%)

5. 1.6 (vehicles)

6. 36 (faculty members)

7. 1:03 (PM)

8. 0

Team Round

1. 7 (rides)

2. ($)19.60 (dollars)

3. ($) 20 (dollars)

4. S (the letter "S")

5. 5 (sides)

6. 16 (blue balls)

7. 48 (units)

8. 6 (4-digit numbers)

9. 120 (cubes)

10. 4 (sq ft)

Countdown Round

1. 17 (oz)

2. 42

3. ($) 0.20
   (dollars per mile)

4. $\frac{12}{13}$

5. 67 (oz)

6. 0.72 (kilograms)

7. ($) 9.60 (dollars)

8. 1,980 (light bulbs)

9. 121 (sq cm)

10. 19 (yds)

11. 20 (hours)

12. ($) 15 (dollars)

13. 4 (years)

14. 5 (ft)

15. 8

16. 24 (ways)

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

18. $4\frac{1}{2}$

19. 101 (even numbers)

20. 6 (line segments)

21. 5 (whole numbers)

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

23. 5,280 (ft per minute)

24. $3\sqrt{2}$ (cm)

25. 310 (sq cm)

26. 30 and -9 (either order)

27. 3 (prime numbers)

28. 5

29. 100

30. 66

31. 4

32. 4 (prime numbers)

33. 28 (sq units)

34. 184 (sq ft)

35. 14, 16, and 18 (in any order)