
MATHCOUNTS

1989-90 School Competition Answer Key

Sprint Round

1. \$1,500	11. 5280 or 5280 miles	21. $\frac{2}{3}$
2. 4 or $k=4$	12. 12	22. 156 or 156 times
3. 160	13. 27 or 27 criminals	23. 12 or 12 designs
4. $\frac{2}{9}$	14. 160 or 160 dogs	24. 5:6
5. 18.49	15. -8 or $n=-8$	25. 15
6. 100 or $n=100$	16. -400	26. 300 or 3×10^2 or 3.0×10^2
7. 181	17. $\frac{7}{12}$	27. $\frac{1}{3}$ or $\overline{.3}$ or $p=\frac{1}{3}$ or $p=\overline{.3}$
8. $\frac{13}{5}$	18. $\frac{5}{2}$	28. .54 or $\frac{27}{50}$ sq meters
9. $\frac{1}{5}$ or $\frac{1}{5}$ of a wall	19. 7	29. (4,4)
10. 3	20. 24 or 24 sq units	30. \$25 or 25 dollars

Target Round

1. $\frac{3}{5}$ or .6

2. 96

3. 16 or 16 \$5 bills

4. \$1920 or 1920 dollars

5. 88

6. 110 or 110 dots

7. 60 or 60%

8. 522

Team Round

1. 3 or 3 combinations

2. $\frac{31}{90}$ or $.3\overline{44}$

3. 9

4. \$3.64 or 3.64 dollars or 364 cents

5. 9×10^6 or 9,000,000 combinations

6. 4

7. 10π or 10π feet

8. 70 or 70%

9. 36

10. 76