
MATHCOUNTS®

2019
Mock National Competition
Answer Key

The appropriate units (or their abbreviations) are provided in the answer blanks.

Sprint:

1. ___17

2. ___ 96π _____

3. ___38

4. ___15.

5. _____.4

6. ____42

7. ____19

8. ____24

9. ____ $\frac{2}{5}$

10. ____20

11. ____258

12. ____15

13. ____ $\sqrt{22}$

14. ___ $\frac{\sqrt{545}}{2}$ _____

15. $\frac{\quad}{\quad} = \frac{3}{7}$

16. $\frac{\quad}{\quad} = 84$

17. $\frac{\quad}{\quad} = 120$

18. $\frac{\quad}{\quad} = -1$

19. $\frac{\quad}{\quad} = 5$

20. $\frac{\quad}{\quad} = \frac{32\sqrt{22}}{11}$

21. $\frac{\quad}{\quad} = 24$

22. $\frac{\quad}{\quad} = \frac{33}{5}$

23. $\frac{\quad}{\quad} = 33$

24. $\frac{\quad}{\quad} = 14$

25. $\frac{\quad}{\quad} = 315$

26. $\frac{\quad}{\quad} = 84$

27. $\frac{\quad}{\quad} = 25$

28. $\frac{\quad}{\quad} = \frac{16385}{32768}$

29. $\frac{\quad}{\quad} = \frac{15\sqrt{15}}{26}$

30. $\frac{\quad}{\quad} = 12$

Target:

1. 67.232%

2. 255

3. 15_

4. .73_

5. 25_

6. 8_

7. 36

8. 2.13_

