

TMC – 2006 – MATH BOWL

Round 1	Questions	Answers
1.	What is the largest prime number less than 89?	83
2.	What is the negative square root of 289?	-17
3.	A fair die is rolled. What is the probability that a number > 2 is rolled?	$\frac{2}{3}$ or 2:3
4.	What is the sum of the integers from 2 to 14?	104
5.	What are the zeros of the function $f(x) = x^2 - 2x - 15$?	-3 and 5
6.	What is the slope of any line parallel to the line $2x + 5y = 9$?	$-\frac{2}{5}$
7.	If $x > 0$, and $x^4 = 100$, what is x^6 equal to?	1000
8.	What is the greatest common divisor of 54 and 135?	27
9.	A card is drawn from a standard deck of 52 cards. What is the probability that the card is a king or black?	$\frac{7}{13}$ or 7:13
10.	If 30% of x is 18, what is 40% of x ?	24

Tie Breakers

1.	What is the area of a triangle with sides of length 3, 6, 7?	$4\sqrt{5}$
2.	Add $\frac{7}{50}$ to $\frac{4}{5}$.	$\frac{47}{50}$