

NAME:

MAY 6, 2017

2017 SCHOLASTIC OLYMPICS MATH-A-THON COMPETITION

1. When two dice are thrown simultaneously, this fraction represents the probability that the sum of the two numbers that turn up is less than 11.

- A. 1 B. $\frac{11}{12}$ C. $\frac{11}{36}$ D. $\frac{3}{6}$

2. If $5x+6 = 10$, then _____ would be the value of $10x+3$.

- A. 11 B. $\frac{1}{15}$ C. -3 D. 13

3. The circumference of a circle triples, therefore the area of the circle becomes:

- A. 9 times smaller C. 3 times bigger
B. 3 times smaller D. 6 times bigger E. 9 times bigger

4. Solve for x. $2x^2-7x=15$

5. If $f(x)= 3x^3+ 5x^2+7$ CALCULATE $f'(-2)$

- A. 7 B. -56 C. 19 D. 16