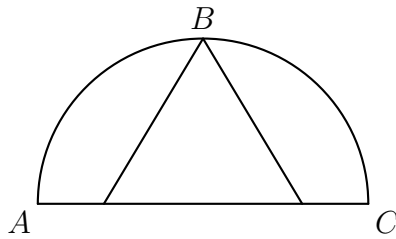


Target Round - Warm up

1. _____ An equilateral triangle is constructed in the interior of a semicircle as pictured. Point B is equidistant from points A and C . If the diameter of the semicircle is 9 inches. how many square inches are in the area of the triangle? Express your answer as a decimal to the nearest tenth.



2. _____ George and Leo each toss a number tetrahedron with the numbers 1-4 on the faces. They then multiply the resulting pair of numbers. If the product is less than 9, George wins; otherwise, Leo wins. What is the probability that Leo will win? Express your answer as a common fraction.
3. _____ What is the first year in the twenty-first century that is a prime number?
4. _____ A fly lands somewhere on the large square. What is the probability that the fly lands on a small square containing a prime number or a multiple of 3? Express your answer as a percent.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	

5. _____ The product of two positive integers x and y is equal to $3x + 4y$. What is the largest possible value of x ?