

NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	If the angle of a triangle are in the ratio 2:3:7, the triangle is	A. Obtuse B. Acute C. Right angle D. Isosceles
2	How many elements are in the sample space of two rolling dies	A. 6 B. 12 C. 18 D. 36
3	The equation of the line with gradient 1 passing through the point (h, k) is	A. $Y = x + k - h$ B. $Y = k/h x + 1$ C. $Y = x + h - k$ D. $Ky = hx - 1$
4	A line segment whose end points lie on a circle is called	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. The circumference of the circle
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
6	If a statement S(n) is true for n = 1 and the truth of S(n) for n + K implies the truth of S(n) for S(n) = K + 1, then S(n) true for all	A. All Real numbers B. All integers C. Positive integers D. All complex numbers
7	The point (-5, 3) is the center of a circle and P(7, -2) lies on the circle. The radius of the circle is	A. 2 B. 13 C. 7 D. 8
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	If the diagonal of a square has coordinates (1, 2) and (5,6) the length of a side is	A. 3 B. 4 C. 1 D. 5
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. (0, e) B. (0, 1) D. None
12	Which is in the solution set of $4x - 3y < 2$	A. (3, 0) B. (4, 1) C. (1, 3) D. None
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
17	If $0 < n < 1$, n is a rational number, the number of terms in the expansion of $(1 + X)^n$ are	A. n + 1 B. 2n C. Infinitely many D. $2n^{>2}$
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 2 C. 3 D. 4
19	The value of the polynomial $3x^3 + 4x^2 - 5x + 4$ at $x = -1$ is	A. 12 B. 1 C. 10 D. -10

A standard deck of 52 cards is shuffled. What is the probability of choosing the queen of the diamonds

- A. $1/5$
 - B. $1/13$
 - C. $5/52$
 - D. $1/52$
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