

Mock NBT MAT Paper 1 Memo

Practice 20 NBT-type multiple-choice questions compiled by Euler Education below.



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9. If $g(x)$ is a quadratic function such that $g(1) = 3$, $g(2) = 9$, and $g(0) = -1$, determine $g(4)$:			
A) 36	B) 27	C) 32	D) 24
10. Iman and Emily each throw coins. What is the probability that Emily more heads than Iman?			
A) $\frac{1}{6}$	B) $\frac{5}{12}$	C) $\frac{1}{3}$	D) $\frac{1}{4}$
11. Consider the triangle with vertices A(2 ; 4), (B6 ; 1), and C(3 ; 1). What is the area of triangle ABC?			
A) 7 units ²	B) 4.5 <i>units</i> ²	C) 9 units ²	D) 10 units ²
12. If the area of a circle is doubled, what is the difference in length between the old and the new circumference in terms of the old radius?			
A) $2\sqrt{2}\pi r_{old}(\sqrt{2}-1)$	B) $\pi r_{old} (\sqrt{2} - 1)$	C) $2\pi r_{old}(\sqrt{2}-1)$	D) $2r_{old}(\sqrt{2}\pi - 1)$
13. If $x + y = 10$ and $x^3 + y^3 = 1170$, then the value of xy is:			
A) $-\frac{23}{3}$	B) $\frac{3}{28}$	C) $-\frac{17}{3}$	D) $\frac{3}{8}$
14. If $\frac{4}{3x^2-6x+4} = 4$, then the value of $\frac{1}{x^2+8x+9}$ equals:			
A) $\frac{1}{24}$	B) $\frac{1}{15}$	C) $\frac{1}{12}$	D) $\frac{1}{18}$
15. If $sin(B) + 2csc(B) = 3$, then $cos(B)$ is equal to:			
A) $-\frac{4}{3}$	B) 0	C) $\frac{1}{2}$	D) -2
16. What is $\log_2(64) - \log_5(125)$ equal to?			
A) 3	B) 4	C) 5	D) 6

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