COLEGIO METROPOLITANO DEL SUR

PLAN DE CONTINGENCIA – MATEMATICAS - LEONARDO PRADA

NOVENO GRADO - GUIA # 1

1. Desarrollar el presente sudoku

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1. Racionalizar:
* $\frac{3}{\sqrt[4]{2x}}$
* $\frac{5nm^{3}}{3\sqrt{nm}}$
* Sea un entero formado por dígitos todos iguales a , al sumar veces el numero consigo mismo el resultado que se obtiene es

a. Un número con 200 de sus dígitos iguales a 3. b. Un número con 1000 de sus dígitos iguales a 6 c. Un número con 2000 de sus dígitos iguales a 3. d. Un número con 100 de sus dígitos iguales 6.

COLEGIO METROPOLITANO DEL SUR

PLAN DE CONTINGENCIA – MATEMATICAS - LEONARDO PRADA

NOVENO GRADO - GUIA # 2

1. Desarrollar el presente sudoku

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1. Desarrollar los siguientes problemas
* El máximo número de cuadrados que se pueden construir utilizando la trama del dibujo, cumpliéndose que los vértices de cada uno de ellos sean puntos de la misma es



1. 15 b. 18 c. 20 d. 14
* El valor de cierto vehículo se deprecia anualmente en $120.000. Si el vehículo nuevo costo $2’000.000 y representa el tiempo en años transcurrido después de la compra del vehículo, entonces un modelo matemático que describe la anterior situación está dado por la ecuación
1. 120.000t – 2’000.000
2. (120.000 – 2’000.000)
3. -120.000t + 2’000.000
4. -120.000 +2’000.000t
* Se introducen 9 esferas de cristal iguales entre si, en un recipiente vacio cuya capacidad es de 30 litros y luego se llena con agua a razón de 0.25 litros por segundo. Si después de 48 segundos el recipiente ha sido llenado totalmente, entonces el volumen (en litros) de cada una de las esferas de cristal, es

 a. 1 litro b. 3 litros c. 2 litros d. 6 litros

COLEGIO METROPOLITANO DEL SUR

PLAN DE CONTINGENCIA – MATEMATICAS – LEONARDO PRADA

NOVENO GRADO - GUIA # 3

1. Desarrollar los siguientes problemas
* Wilson esta haciendo una rifa y Laura quiere comprarle una boleta, cuyo número cumpla las siguientes condiciones:

\* Las cifras de las decenas y centenas deben ser números primos

\* La suma de las cifras de las unidades, decenas y centenas debe ser un múltiplo de la cifra de las unidades de mil, ¿Cuál de los siguientes números escoge Laura?

A. 2.318 B. 2.754

C. 4.325 D. 4.853

* Para embaldosar una sala se necesitan 46 m2 de baldosa. Se solicita el pedido al depósito de donde envían inicialmente 15 cajas que contienen 1 ½ m2 de baldosa cada una. ¿Para completar el pedido se requiere?

A. 6 cajas con baldosas y un metro cuadrado de baldosa

B. 6 cajas con baldosas

C. 15 cajas con baldosas

D. 15 cajas con baldosas y un metro cuadrado de baldosa

* Natalia vive en la calle 74 con carrera 10. Esta dirección, en un plano cartesiano, tiene las coordenadas:
1. (10,74) B. (-10,-74)

C. (74,10) D. (-74,10)

1. Desarrollar el presente sudoku

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