EST March 2024

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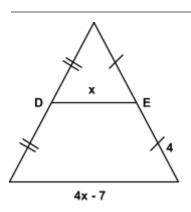
#MinshawyMath WhatsApp: +201144304897

	First	Second	Vip	Front
Available	300	350	100	200
Sold	290	288	80	151
Revenue	10150	8640	9600	6040

- 1) Find the price of each ticket of the First group.
- 2) If the whole Stadium tickets sold out, how much revenue more than the actual revenue.
- 3) If the price was 60% off and the whole Stadium tickets sold out, what would be the revenue

Set of numbers from 1 to 30.

- 4) Find the probability of getting prime number 3 times without replacement.
- 5) Find probability of choosing 2 odd numbers without Replacement.
- 6) If all numbers from 1 to 20 are colored Red and the rest colored Blue, what is the probability to get Red 2 times without Replacement.



7) Find x:

- A) 1.5
- B) 2.5
- C) 3.5
- D) 4

8) if the Equation $y = \frac{1}{x^2 - 4}$ is True for all values of x except.

- A) 2
- B) 土2
- C) -2
- D) 4

9) What is the shape formed by the following system of inequalities:

y≤ *x*+3

y≥ 1

y≤ 3

- A) Parallelogram
- B) Rectangle
- C) Rhombus
- D) Square

10) x - 3y = 5 and 2) 2+3y = 3, what are the steps in order to solve this system.

Add both equations. Then x will be (-1). I.

- II. Isolate *x*
- III. Substitute x from 1) to 2)
- IV.
- V.
- VI.

Substitute x for (-1) in x - 3y = 5 to ***** y = -2. VII.

- A) I and VI
- B) II and I
- C)
- D)

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11) find the simplest form for this Expressions



- A) $27x^4y^3$
- B) $3Zx^2y\sqrt{20y^2}$
- C) $3Zx^2y\sqrt[3]{20y^2}$
- D) $3Zx^{3}y\sqrt{520y}$

12) Ali invented 12000\$ in New Suez Canal with 2.5% annually compounded semiannually; find the profit after 6 years.

13) How many positive solutions does the equation have?

$$x^4 + 2x^3 + 4x^2 = 0$$

14) The distance between two points (3, 4) (12, 4) is \sqrt{k} , find k?



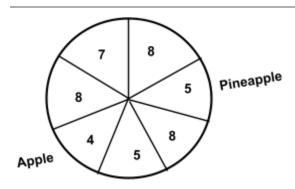
- B) 9
- C) 81
- D) 27



15) Point (3, 4) and (2, b) pass through a line with slope of 3, find b.

16) Find the area of the above circle:

- Α) 49π
- B) 51π
- C) 21π
- D) 41π

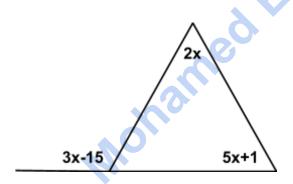


17) Find the Probability to choose apple or Pineapple?

18) Point A and B line on line y = 2x + 1, point C at (4, 3); find the line pass through C and \perp to the line.



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19) Find *x*?

20) If the system of equations has more than one solution, find the value of "a". Eng. Mohamed Elminshamy 2011 AA30 A891

$$2x - 5y = \frac{1}{2}$$

$$5x + ay = \frac{5}{4}$$