## Jackson's GRE Classes on Udemy

## **ALGEBRA BASICS - LINEAR EQUATIONS**

Q1. Find a number such that half of the number is 5 more than one third of the number Q2.

a. Solve a) 
$$7y + \frac{23}{3} = 12$$
  
b)  $-4 = a(x - 7)$ 

Q3.

$$\frac{x-9}{3} + \frac{2x}{5} = 7 - \frac{x}{2}$$

Q4. An apartment has flats with 2 bedrooms and 3 bedrooms. Total number of flats is 100. Total number of bedrooms is 260. Find the number of 2 bedroom flats.

Q5. Solve

3x + 2y + 4z = 19

4x + y + 7z = 27

x + 3y + z = 10

- Q6. There are cows and chicken in a farm. Bob counted 39 heads and 126 legs. How many cows are there in this farm? (a)15 (b)20 (c)24 (d)30 (e) 40
- Q7. Anita is 5 times as old as her daughter. 2 years from no she will be 4 times as old as her daughter. Find the present age of the daughter. (a)30 years (b)6 years (c)10 years (d)15 years (e) 20 years
- Q8. Felix is planning a trip. He plans to hire a Tour guide. The Tour guide charges a fixed cost per day which he has to pay irrespective of the number of miles they travel. On top of that he has to pay a variable cost per mile travelled. He found that if he plans a 3 day trip covering 200 miles it will cost him \$720 and if he plans a 4 day trip covering 300 miles it will cost him \$ 1060. Find the fixed cost and variable cost (a)\$40,\$3 (b)\$20,\$3 (c)\$100,\$3 (d)\$80, \$2 (e) \$50,\$3

## https://www.udemy.com/course/master-gre-math/?referralCode=E49AD9C835A2C850EAB1

## **ANSWERS**

- 1. 30
- 2.a)13/21
- 2.b)5
- 3. 300/37
- 4. 40
- 5. x=1, y=2, z=3
- 6.(c)24
- 7. (b)6
- 8. \$40, \$3