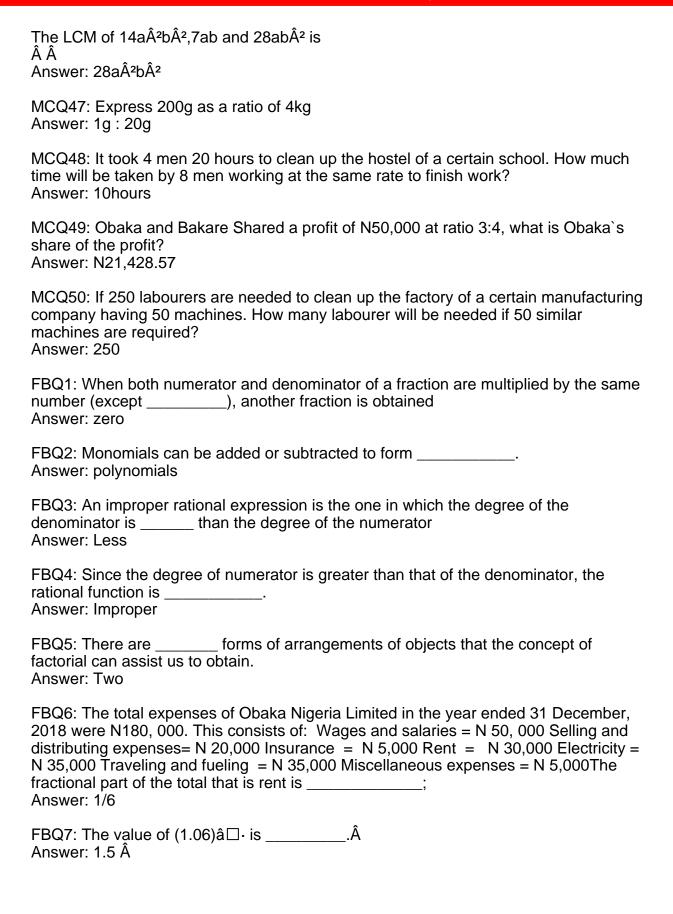
MCQ1: Determine the value of x and y simultaneously given that x + y = 10 and xy = 21Answer: x,y=[(3,7)(7,3)]MCQ2: The sum of twice a number and 5 is less than the sum of one-third of the number and 6, find the number. Answer: x<: 3/5 MCQ3: The sum of eight times a number and 15 is less than thrice the same number minus 10, find the number. Answer: x < -5 MCQ4: Find the sum of eight terms of the GP 2,6,18,-----ÂÂ Answer: 6560 MCQ5: Simplify 3â^š12- 4â^š75 +â^š48 Answer: â^'10â^š3 MCQ6: Solve for the value of t and u given that 2â□¿â□°a2 and 3²â□¿Â¯â □°=27 Answer: n= 2 and o= 1 MCQ7: Factorize the equation 2yÂ2 - 11y+ 5 and get the value of y Â Answer: 5 or Â1/6 MCQ8: The sum of twice a number and 15 is less than thrice the same number minus 9. Form an inequality for the statement and get the value of the number. Answer: x < 24 MCQ9: Find 127th term of the AP given as 5,8,11,-----Answer: 383 MCQ10: The 21st term of an AP is 50,000, if the first term is 20,000. Find the common difference. Answer: 1500 MCQ11: If 3, x, y, 18 are AP. Find the values of X and Y. Â Answer: x=8, y=13 MCQ12: Find the gradient of the line described by the given point. P(5,3) and Q(7,10)

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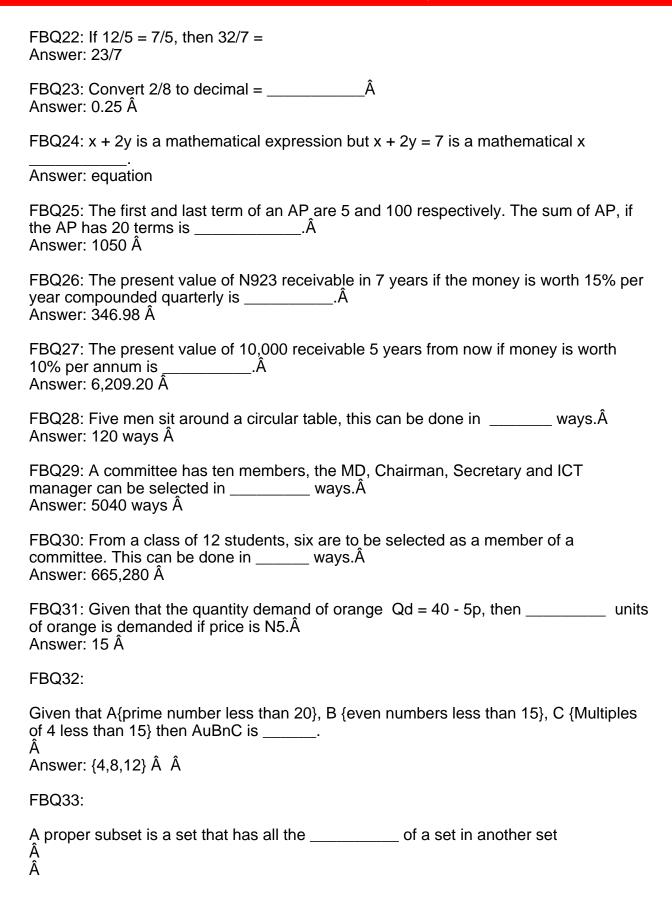
Â ÂÂ Answer: 7â[•]2 MCQ13: 8 pencils and 3 books cost N288 while 5 pencils and 2 books cost N184. what is the cost of pencil and books. Answer: N24 and N32 MCQ14: Using factorization method solve for x, $5x\hat{A}^2 + 12x + 7 = 0$. Answer: â^'1 or â^'1â...-MCQ15: Given equation $4x\hat{A}^2 - 9x + 5 = 0$, find the value of x. Answer: 1 or 1.25 MCQ16: Find the value of K in the perfect square $12x\hat{A}^2 - 6x + K$. Answer: 0.75 MCQ17: Find the quadratic equation whose root is â^'1/2 and 3/2. Answer: 4xÂ² - 4x - 3 MCQ18: Solve (7â... of 17â[•] 19) â[•] 15â[•] 25 Â Answer: 11â..." MCQ19: Solve 1 6â[•]9 of â..." - 3â...• + 2½ â[•] ½ Answer: 2 41â[•]45 MCQ20: A Convert ratio 4:5 to percentage Answer: 80% the total spent on other items. Answer: â...-MCQ22: Express 5hrs as a ratio of 1week and 2days ÂÂ Answer: 5â°•216 MCQ23: The ratio by weight (kg) of zinc, tin and copper are 4:3:3, if the work requires 640kg alloy, what is the required kg for zinc. ÂÂ

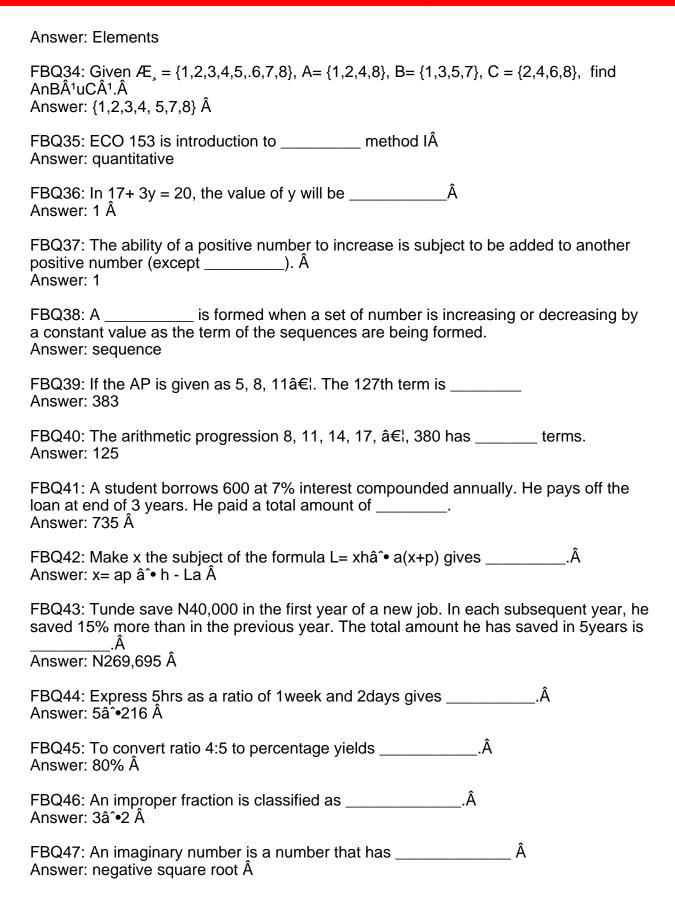
Answer: 256kg MCQ24: For selling an item for N850 a trader made a profit of 15%. What should be selling price be to make a profit of 20%. ÂÂ Answer: 887 ÂÂ MCQ25: Solve the simultaneous inequalities 6x - 2y ≥ 14 and 14x + 3y≤ 24 and determine the values of x and y. ÂÂ Answer: x ≥ 1.96, y ≤ 1.12 MCQ26: Simplify 10á' %/(10 -5)á' % Answer: 30240 MCQ27: In how many ways can the letter of the word FRACTIONS be written? Answer: 362,880 ways MCQ28: In how many ways can the word EXAMINATION be arranged? Answer: 4,989,600 MCQ29: Find the value of (1.06)â□. A Â Answer: 1.5 MCQ30: In how many ways can the letter OSOGBO be arranged? Answer: 120 ways MCQ31: Five men sit around a circular table, how many ways can this be done? Answer: 120 ways MCQ32: Multiply 4á' % x 12 Answer: 288 MCQ33: A committee has ten members, how many ways can the MD, Chairman, Secretary and ICT Manager be selected? Answer: 5040 ways

MCQ34: Solve â□.Pâ,,, â^' â□ 'Pâ, f Â Â 828Â Answer: 828 MCQ35: From a class of 12 students, six are to be selected as a member of a committee. In how many ways can this be done? Answer: 665,280 MCQ36: A school committee is to be formed. There are nine girl and six eligible boys. In how many ways can the committee be formed if there are four girls and three boys?1+xn=1+nx1!+nn-1x22!+… Answer: 2520 MCQ37: Find 127th term of the AP given as 5,8,11,------Answer: 383 MCQ38: Â An imaginary number is a number that has Â ÂÂ Answer: negative square root MCQ39: Simplify 3½ - 2 7/121+xn=1+nx1!+nn-1x22!+… Answer: 11â • 12 MCQ40: It took 7men 35hours to build a house. How much time will it take 12 men working at the same rate to finish the house. Answer: 20hrs 42mins MCQ41: For selling an item for N 900 a trader make a profit of 25%. What should the selling price be to make a profit of 30%. Answer: N936 MCQ42: Factorise the polynomial $4x\hat{A}^2 + 20x + 3xy + 15y$ Answer: (x+5)(4x+3y)MCQ43: Solve the indices $(2a\hat{A}^3b\hat{A}^2)(a\hat{A}^-\hat{A}^2b)/(2ab)\hat{A}^-\hat{A}^2$ Answer: 8a³bâ□µ MCQ44: Solve logâ,...12.5 + logâ,...2 Answer: 2 MCQ45: Convert logâ, f6 to base 3 Answer: 1.63 MCQ46:



FBQ8: The ratio by weight (kg) of zinc, tin and copper are 4:3:3, if the work requires 640kg alloy, the required kg for zinc is Answer: 256kg Â
FBQ9: Simplify without using table logâ,12.5 + logâ,2 is Answer: 2 Â
FBQ10: Simplify and solve for x, given (0.125)x+1 = 1â^•64 yields Answer: 1 Â
FBQ11: Convert 2/5 to ratio =Â Answer: 2:5
FBQ12: Convert 3/5 to percentage =Â Answer: 60% Â
FBQ13: If 250 labourers are needed to clean up the factory of a certain manufacturing companies having 50 machines,labourers will be needed if additional 40 similar machines are required. Answer: 450 Â
FBQ14: It took 5 men 20 hours to clean up the warehouse of a certain company, therefore,hours will be taken by 10 men doing the same work at the same rate.Â Answer: 10
FBQ15: The population of a country was 1.5 million in 1998 and in 2008, the population dropped to 1.2 million. The percentage reduction in population was per cent Answer: 20 Â
FBQ16: 9-3/2 = Â Answer: 1/27 Â
FBQ17: (x-3)0 =Â Answer: 1 Â
FBQ18: a2b3/ab =Â Answer: ab2 Â
FBQ19: An orange can be shared among four children equally so that each of them gets a of the orange. Answer: quarter
FBQ20: A is a small amount or proportion of a whole. Answer: fraction
FBQ21: A proportion is simply an expression of the equation of ratios. Answer: two





	The 3rd and the 6th term of GP are 18 and 486, therefore, the 10th term is 39366 Â
Answer:	39300 A
FBQ49: third terr Answer:	
	The 4th and 7th term of an arithmetic sequence are 6 and 15 respectively. The of the sequence isÂ