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 3a^š12- 4a^š75 +a^š48

Answer: â^'10â^\$3

eks.com MCQ6: Solve for the value of t and u given that 2â□¿â□⁰â□⁰å
3²â□;Â⁻â□⁰-27

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 ½

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)

Â

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...-

MCQ17: Find the quadratic equation whose root is â^'1/2 and 3/2. Answer: $4x\hat{A}^2 - 4x - 3$ MCQ18: Solve $(7\hat{a}... - \text{ of } 17\hat{a}^{\bullet} \cdot 19) \hat{a}^{\bullet} \cdot 15\hat{a}^{\bullet} \cdot 25$ Â
Â
Â
Î A
Inswer: 11â..."

Answer: 2 41â • 45

MCQ20: Â 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

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

Solve the simultaneous inequalities 6x - 2y ≥ 14 and 14x + 3y≤ 24 and determine the values of x and y. Â Â
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

adedinon 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

MCQ312 Five men sit around a circular table, how many ways can this be done?

Answer: 120 ways

MCQ32: Multiply 4á'\sim 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 $\hat{a} \Box \cdot P\hat{a}_{,,,} \hat{a}^{'} \hat{a} \Box 'P\hat{a}_{,,f}$ 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. e ...Iree In how many ways can the committee be formed if there are four girls and three

boys?1+xn=1+nx1!+nn-1x22!+â€

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

ÂÂ

Answer: negative square root

MCQ39: Simplify 3½ - 2 7/121+xn=1+nx11+nn-1x22!+â€

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:

The LCM of 14a²b²,7ab and 28ab² is
Â Answer: 28a²b²
MCQ47: Express 200g as a ratio of 4kg Answer: 1g : 20g
MCQ48: It took 4 men 20 hours to clean up the hostel of a certain school. How much time will be taken by 8 men working at the same rate to finish work? Answer: 10hours
MCQ49: Obaka and Bakare Shared a profit of N50,000 at ratio 3:4, what is Obaka's share of the profit? Answer: N21,428.57
MCQ50: If 250 labourers are needed to clean up the factory of a certain manufacturing company having 50 machines. How many labourer will be needed if 50 similar machines are required? Answer: 250
FBQ1: When both numerator and denominator of a fraction are multiplied by the same number (except), another fraction is obtained Answer: zero
FBQ2: Monomials can be added or subtracted to form Answer: polynomials
FBQ3: An improper rational expression is the one in which the degree of the denominator is than the degree of the numerator Answer: Less
FBQ4: Since the degree of numerator is greater than that of the denominator, the rational function is Answer: Improper
FBQ5: There are forms of arrangements of objects that the concept of factorial can assist us to obtain. Answer: Two
FBQ6: The total expenses of Obaka Nigeria Limited in the year ended 31 December, 2018 were N180, 000. This consists of: Wages and salaries = N 50, 000 Selling and distributing expenses= N 20,000 Insurance = N 5,000 Rent = N 30,000 Electricity = N 35,000 Traveling and fueling = N 35,000 Miscellaneous expenses = N 5,000 The fractional part of the total that is rent is; Answer: 1/6
FBQ7: The value of (1.06)â□· isÂ Answer: 1.5 Â

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 Å
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

FBQ22: If 12/5 = 7/5, then 32/7 = Answer: 23/7
FBQ23: Convert 2/8 to decimal =Â Answer: 0.25 Â
FBQ24: $x + 2y$ is a mathematical expression but $x + 2y = 7$ is a mathematical x
Answer: equation
FBQ25: The first and last term of an AP are 5 and 100 respectively. The sum of AP, if the AP has 20 terms isÂ Answer: 1050 Â
FBQ26: The present value of N923 receivable in 7 years if the money is worth 15% per year compounded quarterly is Answer: 346.98 Â
FBQ27: The present value of 10,000 receivable 5 years from now if money is worth 10% per annum isÂ Answer: 6,209.20 Â
FBQ28: Five men sit around a circular table, this can be done in ways. Answer: 120 ways Â
FBQ29: A committee has ten members, the MD, Chairman, Secretary and ICT manager can be selected in ways. Answer: 5040 ways Â
FBQ30: From a class of 12 students, six are to be selected as a member of a committee. This can be done in ways. Answer: 665,280 Â
FBQ31: Given that the quantity demand of orange $Qd=40$ - 5p, then units of orange is demanded if price is N5. Answer: 15 Â
FBQ32:
Given that A{prime number less than 20}, B {even numbers less than 15}, C {Multiples of 4 less than 15} then AuBnC is
Answer: {4,8,12} Â Â
FBQ33:
A proper subset is a set that has all the of a set in another set $\hat{\textbf{A}}$

Answer: Elements FBQ34: Given Æ = $\{1,2,3,4,5,6,7,8\}$, A= $\{1,2,4,8\}$, B= $\{1,3,5,7\}$, C = $\{2,4,6,8\}$, find AnB¹uC¹.Â Answer: {1,2,3,4, 5,7,8} Å FBQ35: ECO 153 is introduction to _____ method IÂ Answer: quantitative FBQ36: In 17+ 3y = 20, the value of y will be _____Â Answer: 1 Â FBQ37: The ability of a positive number to increase is subject to be added to another positive number (except). A Answer: 1 FBQ38: A is formed when a set of number is increasing or decreasing by a constant value as the term of the sequences are being formed. Answer: sequence FBQ39: If the AP is given as 5, 8, 11â€l. The 127th term is Answer: 383 FBQ40: The arithmetic progression 8, 11, 14, 17, â€; 380 has terms. Answer: 125 FBQ41: A student borrows 600 at 7% interest compounded annually. He pays off the loan at end of 3 years. He paid a total amount of _____. Answer: 735 Â FBQ42: Make x the subject of the formula L= xhâ^• a(x+p) gives ______.Â Answer: x= ap â[•] h - La A FBQ43: Tunde save N40,000 in the first year of a new job. In each subsequent year, he saved 15% more than in the previous year. The total amount he has saved in 5years is Answer: N269,695 Â FBQ44: Express 5hrs as a ratio of 1week and 2days gives ______.Â Answer: 5â^•216 Â FBQ45: To convert ratio 4:5 to percentage yields ______.Â Answer: 80% Â FBQ46: An improper fraction is classified as ____ .Â Answer: 3â^•2 Â FBQ47: An imaginary number is a number that has ______ Â Answer: negative square root A

FBQ48: The 3rd and the 6th term of GP are 18 and 486, therefore, the 10th term is .Â
Answer: 39366 Â
FBQ49: The second term of a geometric progression is 6 and the fifth term is 162. The third term isÂ Answer: 18 Â
FBQ50: The 4th and 7th term of an arithmetic sequence are 6 and 15 respectively. The nth term of the sequence is Answer: 4 Â
FBQ50: The 4th and 7th term of an arithmetic sequence are 6 and 15 respectively. The nth term of the sequence isÅ Answer: 4 Å