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Fill in the Blank (FBQs): FBQ1: Convert 2710 to another number in base three_____ Answer: *1000 base 3* FBQ2: Find the length of a chord which subtends an angle of 90o at the centre of a circle whose radius is 8cm, _ Answer: 82cm FBQ3: If log 4 = 0.6021, evaluate log 41/3Answer: *0.2007* FBQ4: A square title has side 30cm. how many of these tiles will cover a rectangular floor of length 7.2m and width 4.2m? Answer: *336* FBQ5: Solve without using tables log5(62.5) - log5(1/2), ____ Answer: *3* FBQ6: If N225.00 yields N27.00 in x-year simple interest at 4% per annum, find x Answer: *3* FBQ7: If x2+9 = x+1, solve for xAnswer: *4* FBQ8: In slope-intercept form, the equation of a line passing through the point (-3,2) and parallel to 4x-y=7 is given as Answer: *y=4x+4*FBQ9: A regular polygon has 1500 as the size of each interior angle. How many sides has the polygon?, Answer: *12* is the principal which amounts to N5,500 at simple interest in 5years at 2% per annum Answer: *N5,000* FBQ11: The x intercept of 9x-2y=18 is _____ Answer: *(3,0)*FBQ12: A cylindrical tank has a capacity of 3080m3. What is the depth of the tank, if the base diameter of the base is 14m_ Answer: *20m* FBQ13: Simplify 12-312+3 _____ Answer: *1/3* FBQ14: If $sin\theta = 3/5$, find $tan\theta$ ____ Answer: *3/4* FBQ15: Calculate the logarithm to base 9 of $3-4 \times 92 \times (81)-1$, _____ Answer: *-2*

FBQ16: In triangle XYZ, \angle XYZ=15o, \angle XZY=45o and XY = 7cm, find <math xmlns="http://w Answer: 726cm FBQ17: Find r, if 6r78 = 5119 ____ Answer: *3* FBQ18: Express the product of 0.21 and 0.34 _____ Answer: $*7.14 \times 10-2*$ FBQ19: Given that $\log 2 = 0.3010$ and $\log 7 = 0.8451$. evaluate $\log 112$, Answer: *2.0491* FBQ20: If the two smaller sides of a right angle triangle are 4cm and 5cm, find its area Answer: *10 sq cm* FBQ21: Find the value of x for which 2(32x-1)=162, Answer: *5/2* FBQ22: Simplify log28log24, Answer: *3/2* FBQ23: When a dealer sells a bicycle for N81 he makes a profit of 8%. What did he pay for the bicycle?, Answer: *N75* FBQ24: Write the decimal number 39 to base 2, Answer: *100111* FBQ25: Two distinct sectors in the same circle subtend 1000 and 300 respectively at the centre of the circle. Their corresponding arcs are in the ratio_ Answer: *10:3* FBQ26: A side of a rhombus is 2cm in length. An angle of the rhombus is 600. What is the length of the diagonal facing the angle_ Answer: *2cm* FBQ27: Given a regular hexagon, calculate each interior angle of the hexagon Answer: *1200* FBQ28: The Common difference of sequence 5,8,11,14,... is____ Answer: *3* FBQ29: One interior angle of a convex hexagon is 1700 and each of the remaining angles is equal to x0. Find x,__ Answer: *110*0 FBQ30: A regular polygon of n-sides has 1600 as the size of each of interior angle. Find n, Answer: *18* FBQ31: The perimeter of a rectangular lawn is 24cm. if the area is 35 sq cm, how wide is the lawn? Answer: *5cm* FBQ32: Find the radius of a sphere whose surface area is 154 sq cm, $[\pi=22/7]$, Answer: *3.5cm* FBQ33: The angle between latitudes 300S and 130N is, Answer: *43*0

FBQ34: If sinx =cosx, find x between 00 to 3600,

Answer: *45 degrees*
FBQ35: The area of a circle is cm2 whose circumference is 44cm, Answer: *154*
FBQ36: A sector of a circle of radius 14cm has an area of 77cm2. Calculate the angle of the sector at the centre, Answer: *450*
FBQ37: What is the length of a chord drawn 12cm away from the centre off a circle of radius 13cm, Answer: *10cm*
FBQ38: Find an exterior angle of a regular pentagon, Answer: *720*
FBQ39: Find the hypotenuse of a right-angled triangle of which its shorter sides are 3cm and 4cm respectively, Answer: $^*5\text{cm}^*$
FBQ40: Calculate the area of an equilateral triangle of side 12cm Answer: 363cm2
FBQ41: What is the length of a diagonal of a square whose area is 242cm2 Answer: *22cm*
FBQ42: If $cos\theta=35$ find $tan\theta$, Answer: *3/4*
FBQ43: What is the volume of a cone whose radius is 9cm and height is 21cm, cm3 Answer: *2442*
FBQ44: If m=3, q=2 and r=21 evaluate m2qr Answer: *243/7*
FBQ45: Simplify 312-21312, Answer: *7/3*
FBQ46: What is the diagonal of a land measuring 100m by 100m? Answer: 1002m
FBQ47: The slope of the linear equation y=12x-2 is
FBQ48: If three people are to share N72 in the ratio of 3:4:5, what is the smallest share?, Answer: *N18*
FBQ49: Convert 2710 to a number in base 4, Answer: *1234*
FBQ50: If 2n=128 find the value of n Answer: *7*
Multiple Choice Questions (MCQs): MCQ1: The highest in the hierarchy of numbers is numbers Answer: natural
MCQ2: Pi is an example of number Answer: irrational

MCQ3: If 6410=x5 find x? Answer: 223

MCQ4: Convert 173 to base eight

Answer: 24438

MCQ5: Convert 10111012 to denary

Answer: 95

MCQ6: Convert 1345 to denary

Answer: 44

MCQ7: If 202x=101002 solve for x

Answer: 5

MCQ8: Find the next term of each sequence 4, 16, 36, 64, 100

Answer: 169

MCQ9: If 35y + 62y = 125y and the value of y

Answer: 4

MCQ10: Expand and simplify (2x - 1)(x + 3)

Answer: x2+x-5

MCQ11: Perform the operation $4\ 2+\ 3\ 2\ -\ 2$

Answer: 52

MC012:

Answer: x2 - 6x + 9

MCQ13: Simplify x7÷x3

Answer: x2

MCQ14: When solving a quadratic equation, you are looking for which of the

following?

Answer: Point(s) of intersection

MCQ15: A linear system of equations made up of two intersecting lines has

___ solution(s)

Answer: two

MCQ16: If the legs of a right triangle measure 5 and 12 cm respectively, the

measure of the third side is

Answer: 21 cm

MCQ17: Simplify 4-2353

Answer: 4-35

MCQ18: Find the cost of 11 bottles of cough syrup if the cost of 2 dozen of it

is N 2520. Answer: N115

MCQ19: A quantity of food lasts 5 men for one month (30 days). For how long will

it last 6 men, if their rate of eating is the same?

Answer: 24 days

MCQ20: In a class of 60 students, 42 were present. What is the percent

attendance? Answer: 70%

MCQ21: A pharmacist bought a drug for N 375 and sold it for N 420. Find his or

her profit or loss percent

Answer: 14%

MCQ22:

Answer: x ∓5

MCQ23: Answer: 6

MCQ24: Answer: 5

MCQ25: Given y+6x=3 what is the value of y when x=1

Answer: -1

MCQ26: Answer: -2

MCQ27: Answer:

MCQ28: An acute angle is an angle whose size is less than

Answer: 90°

MCQ29: Find the length of the arc of a circle of radius 7cm, which subtends an

angle of 60° at the center of the circle. (Take π =227)

Answer: 253cm

MCQ30: Find the angle subtended at the centre of a circle radius 6.2cm by an arc

of length 12cm. (Take π =227)

Answer: 10.85°

MCQ31: The square root of a number is the same as raising the number to the

Answer: (1/2) power

MCQ32: Find the circumference of a circle of radius 10cm. Take π = 3.142

Answer: 62.84cm

MCQ33: Find the circumference and area of the circle of radius 12cm. (Take $\pi\text{=}227$

Answer: 75.4cm and 42.58cm2

MCQ34: A sector is cut out of a circle of radius 21 cm. Find the length of arc.

(Take π =227) Answer: 60cm

MCQ35: A sector is cut out of a circle of radius 21 cm. Find the area of this

sector, if the sector subtends an angle of 120°. (Take π =227)

Answer: 463cm2

MCQ36: Find the perimeter of a semicircle of radius 12.3cm. Take π = 3.142

Answer: 6.25cm

MCQ37: A Cuboid is l0cm long, 8cm wide and 7cm high. Find the total surface area

of the Cuboid Answer: 412cm2

MCQ38: Find the volume of a 12.5cm by 10.5cm by 8.5cm box

Answer: 115.625cm3

MCQ39: If log7x=2

Answer: 49

MCQ40: Evaluate log100

Answer: 1

MCQ41: Simplify the following logax2+3logax-2loga4x&

Answer: logax2

MCQ42: Solve the following for x: $2\log ax - \log a(x-1) = \log a(x-k)$

Answer: 23

MCQ43: Simplify 8x-3×3x26x-4

Answer: 2x2

MCQ44: Simplify 2a3b÷a2b6×ab2

Answer: a2

MCQ45: The diameter of the base of a cylinder is 12 cm and the height is 8 cm.

Find the surface area of the solid cylinder

Answer: 528 cm2

MCQ46: The ages of Isa and Adamu differ by 6 and the product of their ages is

187. Write their ages in the form (x,y) where x & amp; gt; y.

Answer: (12,6)

MCQ47: Find n if, log24+log27+log2n=1</

Answer: 28

MCQ48: If 5x+2y=5 and 4x+3y=16, find 3x+y

Answer: 0

MCQ49: If the population of a town was 240,000 in January 1998 and it increased

by 2% each year, what would be the population in 2000?

Answer: 480,000

MCQ50: If m = 3, p = -3, q = 7 and r = 5/2, evaluate m(p+q+r<m)

Answer: 19