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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 41/3
Answer: *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) â€“ 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 x _____
Answer: *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 â€¦â€¦â€¦â€¦â€¦..
Answer: *y=4x+4* Â

FBQ9: A regular polygon has 150o as the size of each interior angle. How many sides has the polygon?,
Answer: *12*

FBQ10: _____ 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=18Â Â 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 sinÎ¸ = 3/5, find tanÎ¸___
Answer: *3/4*

FBQ15: Calculate the logarithm to base 9 of 3-4 Ã— 92 Ã— (81)-1, ____
Answer: *-2*

FBQ16: In triangle XYZ,Â âˆ XYZ=15o,Â âˆ XZY=45o and XYÂ =Â 7cm, find <math xmlns="http://w
Answer: 726cm

FBQ17: Find r, if 6r78Â =Â 5119 _____
Answer: *3*

FBQ18: Express the product of 0.21 and 0.34 _____
Answer: *7.14 Ã— 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 Â Â log2â□¡8log2â□¡4,
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,â€¦ is___Â
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, [Ï€=22/7],
Answer: *3.5cm*

FBQ33: The angle between latitudes 300S and 130N is, _____
Answer: *43*0

FBQ34: If sinxÂ =cosx, find x between 00 to 3600,
Answer: *45 degrees*

FBQ35: The area of a circle is _____ cm2Â whose circumference is 44cm,
Answer: *154*Â Â

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 areÂ 3cmÂ andÂ 4cm respectively,
Answer: *5cm*Â Â

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 cosÎ¸=35Â Â Â findÂ tanÎ¸,
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,Â q=2Â andÂ 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: 1002mÂ Â

FBQ47: The slope of the linear equation y=12x-2 is â€¦â€¦â€¦â€¦â€¦â€¦â€¦â€¦..
Answer: *2/3*

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: Â *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 35yÂ +Â 62y=Â 125y and the value of y
Answer: 4

MCQ10:  Expand and simplify (2x - 1)(x + 3)
Answer: x2+x-5

MCQ11: Perform the operation 4Â 2+Â 3Â 2Â -Â 2Â Â 2
Answer:  52

MCQ12:
Answer: x2Â -6x+9

MCQ13: Simplify x7Ã·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: xÂ â^“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: 90Â°

MCQ29: Find the length of the arc of a circle of radius 7cm, which subtends an angle of 60Â° at the center of the circle. (Take Ï€=227)
Answer: 253cm

MCQ30: Find the angle subtended at the centre of a circle radius 6.2cm by an arc of length 12cm. (Take Ï€=227 )
Answer: 10.85Â°

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. TakeÂ Ï€ = 3.142
Answer: 62.84cm

MCQ33: Find the circumference and area of the circle of radius 12cm. (Take Ï€=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 Ï€=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 120Â°. (Take Ï€=227 )
Answer: 463cm2

MCQ36: Find the perimeter of a semicircle of radius 12.3cm. Take Ï€ = 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 log7â☐¡x=2
Answer: 49

MCQ40: Evaluate log10â☐¡0
Answer: 1

MCQ41: Simplify the following logaâ☐¡x2+3logaâ☐¡x-2logaâ☐¡4x&
Answer: logaâ☐¡x2

MCQ42: Solve the following for x: 2logaâ☐¡x-logaâ☐¡(x-1)=logaâ☐¡(x-</m
Answer: 23

MCQ43: Simplify 8x-3Ã—3x26x-4
Answer: 2x2

MCQ44: Simplify 2a3bÃ·a2b6Ã—ab2
Answer: a2Â

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: 528Â 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 xÂ >Â y.
Answer: (12,6)

MCQ47: Find n if, log2â☐¡4+log2â☐¡7+log2â☐¡n=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 mÂ =Â 3,Â pÂ =Â -3,Â qÂ =Â 7 and rÂ =Â 5/2, evaluate m(p+q+r<m
Answer: 19