**GREAT BACHEL**

**BRITISH INTERNATIONAL COLLEGE**

**MOTTO: “Making a positive difference in Academic Pursuit”**

15/17 PRINCE AKINBORO STREET, OFF ALAJA RD, MEGIDA B/STOP, AYOBO

e-mail:

website: www.bachelintcollege.com

enquiry@bachelintcollege.com

**MATHE MATICS**

1. How many seconds are there in 8 minutes 12 seconds (a) 512 seconds (b) 500 seconds (c) 492 seconds (d) 490 seconds (e) 480 seconds
2. Simplify ($\frac{2}{5}+\frac{2}{7} $) x ($1+\frac{1}{8} $) (a) $\frac{8}{3}$ (b) $\frac{5}{3}$ (c) $\frac{4}{3}$ (d) $\frac{3}{5}$ (e) $\frac{1}{2}$
3. There are 750 students in a college. If 70% of them are girls, how many are boys? (a) 225 (b) 310 (c) 490 (d) 525 (e) 680
4. In a village of people infected with HIV in 2001 were 100. In 2004, 250 people were infected. Find the ratio of those infected in 2001 to those infected in 2004 (a) 1:5 (b) 2:5 (c) 3:5 (d) 5:1 (e) 5:2
5. The ratio of the length to breadth of a room is 7:5, find the length of the room if the breadth is 10m. (a) 10m (b) 12m (c) 14m (d) 21m (e) 35m
6. Increase 80 by 10% (a) 8 (b) 10 (c) 80 (d) 88 (e) 108
7. Odiri bought 12 cartons of biscuit for N3, 000.00. Find the cost of 7 cartons (a) N250.00 (b) N442.00 (c) N840.00 (d) N1, 750.00 (e) N2, 700.00
8. A man earns N5, 000.00 for 10 days work,. How much should he earn in 14 days, if he works at the same rate (a) N12, 000.00 (b) N10, 000.00 (c) N7000.00 (d) N700.00 (e) N500.00
9. Find the Simple Interest on N600.00 for 5 years at 8% per annum (a) N2.4(b) N24.00 (c) N240.00 (d) N2, 400.00 (e) N24, 000.00
10. If 400g **:** 1kg, find the ratio in the simplest form. (a) 2:5 (b) 1:2 (c) 4:10 (d) 3:4 (e) 2:3
11. If 8 children ate a crate of egg in 12 days, how long will 6 children take to eat same crate of egg, if they eat at the same rate (a) 24 days (b) 16 days (c) 12 days (d) 10 days (e) 8 days
12. Simplify 2x - x + 4x (a) 3x (b) 4x (c) 5x (d) 6x (e) 7x
13. Convert 0.025 to decimal fraction (a) 1/10 (b) 1/20 (c) 1/30 (d) 1/40 (e) 1/44
14. Find the L.C.M of 12 and 16 (a) 4 (b) 8 (c) 16 (d) 32 (e) 48
15. Find the sum of H.C.F and L.C.M (a) 4 (b) 6 (c) 20 (d) 24 (e) 28
16. How many hours and minutes are there between 9:30 a.m and 1:50 p.m (a) 2 hours 20 minutes (b) 3 hours 20 minutes (c) 4 hours 20 minutes (d) 6 hours 20 minutes (e) 8hours 20 minutes
17. If 4x2 - 3 = 1, which of the following is a value of 1-2x? (a) 4 (b) 1 (c) 0 (d) -1 (e) -4

 a b

c

1. In the figure above, which of these equations gives the value of a2? (a) a2 = b2 - c2 (b) a2 = b2 + c2 (c) a2 = c2 -b2 (d) a2 = (c –b)2 (e) a2 = (c -b2)
2. The perimeter of a rectangle is 360cm. find the breadth if its length is 80cm. (a) 180cm (b) 90cm (c) 100cm (d) 80cm (e) 70cm
3. Find the median of this data: 2,3,2,4,5,3,2,6,5 (a) 3 (b) 2 (c) 6 (d) 5 (e) 3.5

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**MATHEMATICS**

1. The smaller angle between the hands of a clock at 2:00 p.m is ….. (a) 75 (b) 120 (c) 60 (d) 90 (e) 45
2. How many angles are in a trapezium (a) 5 (b) 3 (c) 2 (d) 4 (e) 6
3. A six sided polygon is known as (a) Semi quaver (b) Octagon (c) Hexagon (d) Pentagon (e) Heptagon
4. A scalene triangle has ……… (a) all sides equal (b) 2 sides and 2 angles equal (c) one of the angle is a right angle (d) all the 3 sides unequal (e) none of the above
5. The mean of three numbers is 6, the mode of the numbers is 7, find the lowest of the 3 numbers (a) 4 (b) 7 (c) 3 (d) 4 (e) 5
6. The diameter of a circle is 10.5cm. Calculate the perimeter of the circle , use π = 22/7(a) 54cm (b) 33cm (c) 173cm (d) 5cm (e) 66cm
7. If 3 angles of a quadrilateral is added and the result is 2800. Find the fourth angle. (a) 90 (b) 70 (c) 80 (d) 60 (e) 40

 **Use the data 10,12,11,10,7,6,7 to answer questions 8-10**

1. Find the mean of the data (a) 7 (b) 8 (c) 9 (d) 10 (e) 9.5
2. Find the mode of the data (a) 7 (b) 9 (c) 8 (d) 10 (e) 9.5
3. Find the median of the data (a) 8 (b) 7 (c) 9 (d) 10 (e) 9.5
4. Which of the following is 1m3 in cm3 (a) 100 (b) 1000 (c) 1000000 (d) 10000 (e) 10
5. Calculate the area of the shaded portion if the diameter is 14cm and x = 22/7



(a) 115.5cm2 (b) 462cm2 (c) 154cm2 (d) 38.5cm2 (e) 77cm2

1. Express 104 as a product of its prime factors in index form (a) 23 x 3 (b) 23 x 13 (c) 24 x 3 (d) 24 x 13 (e) 23 x 14
2. A shape with many lines of symmetry is …….. (a) Square (b) Triangle (c) Sphere (d) Circle (e) Pyramid

Use the information below to answer question 31-33

Three motorist: Ado, Olu and Hassan took part in a race. All three started off at the same time. The distance to be covered was 300km. The average speed of the three motorists were Ado 80km/h; Olu 100km/h; and Hassan 75km/h.

1. Who won the race? (a) Ado (b) Olu (c) Hassan (d) Ado and Olu together (e) Ado and Hassan
2. How far had Ado gone after 1½ hours? (a) 40km(b) 80km (c) 100km (d) 120km (e) 200km
3. How long did it take Hassan to finish the race? (a) 40 hours (b) 25 hours (c) 4 hours (d) 3 hours (e) 2 hours
4. If 2¼ + p = 7¾, what number does p represent? (a) 10 (b) 9½ (c) 9 (d) 5½ (e) 5¼
5. A cone is 8cm high and has a base diameter of 12cm. its slant height is (a) 6cm (b) 5cm (c) 10cm (d) 12cm (e) 20cm
6. A cylinder is of height 5cm and base radius 2cm, use the value 3.14 for π to calculate the area of its curved surface to the nearest cm2 (a) 13 cm2 (b) 25 cm2 (c) 31 cm2 (d) 63 cm2 (e) 126 cm2