

## BASIC EDUCATION CERTIFICATION (JSS 3)

Past Questions with Solutions  
Mathematics 2013

## PAPER I

## MULTIPLE CHOICE

- Approximate 5.7255 to the nearest thousandth.  
A. 5.7 B. 5.725 C. 5.7255 D. 5.726  
E. 5.73
- Write in figure: six hundred and fifty-eight million, one hundred and twenty-five thousand and one.  
A. 658,125,100 B. 658,125,101  
C. 658,125,001 D. 658,125,000  
E. 658,105,001
- Express 0.00254 in standard form.  
A.  $2.54 \times 10^{-1}$  B.  $2.54 \times 10^{-2}$  C.  $2.54 \times 10^{-3}$   
D.  $2.54 \times 10^{-4}$  E.  $2.54 \times 10^{-5}$
- Find the sum of prime factors in 60.  
A. 5 B. 7 C. 8 D. 10 E. 12
- Round off 6827 to the nearest ten.  
A. 6820 B. 6821 C. 6830 D. 6900  
E. 7000
- Express N32.00 as a ratio of N72.00.  
A. 34:16 B. 16:34 C. 9:4 D. 4:9 E. 1:2
- Find the L.C.M. of  $20a^2$  and  $32ab$ .  
A. 4a B.  $16a^2b$  C.  $160a^2b$  D.  $160ab^2$   
E.  $320a^2b$
- Add the following  $1011_{\text{two}}$ ,  $1111_{\text{two}}$  and  $101111_{\text{two}}$ .  
A.  $111110_{\text{two}}$  B.  $10111_{\text{two}}$  C.  $1001001_{\text{two}}$   
D.  $1001101_{\text{two}}$  E.  $11001101_{\text{two}}$
- Find the H.C.F. of 108 and 72.  
A. 9 B. 18 C. 27 D. 36 E. 72
- Increase 4500kg by 15%.  
A. 300kg B. 675kg C. 3825kg D. 5175kg  
E. 67500kg
- Find the product of the L.C.M. and H.C.F. of the following numbers 9, 12 and 18. A. 6 B. 18 C. 36 D. 108 E. 216
- If N240,000.00 is shared among 3 people in the ratio 5:4:3, what is the least share?  
A. N100,000.00 B. N96,000.00 C. N80,000.00  
D. N60,000.00 E. N32,000.00
- Find the simple interest on N200,000.00 for 3½ years at 5% per annum.  
A. N5,250.00 B. N3,775.00 C. N10,750.00  
D. N11,550.00 E. N15,770.00
- Find the square root of  $9 \times 16 \times 25$ .  
A. 3000 B. 300 C. 60 D. 25 E. 9
- A computer is bought for N45,000.00 and sold for N30,000.00. Find the loss percent.  
A. 45.00% B. 33.33% C. 30.00% D. 15.33%  
E. 10.00%
- Arrange in descending order of magnitude  $\frac{3}{5}$ ,  $\frac{1}{4}$ ,  $\frac{4}{7}$ ,  $\frac{5}{9}$ .  
A.  $\frac{3}{5}$ ,  $\frac{4}{7}$ ,  $\frac{1}{2}$ ,  $\frac{5}{9}$  B.  $\frac{1}{4}$ ,  $\frac{4}{7}$ ,  $\frac{3}{5}$ ,  $\frac{5}{9}$   
C.  $\frac{3}{5}$ ,  $\frac{4}{7}$ ,  $\frac{5}{9}$ ,  $\frac{1}{4}$  D.  $\frac{4}{7}$ ,  $\frac{3}{5}$ ,  $\frac{1}{4}$ ,  $\frac{5}{9}$   
E.  $\frac{5}{9}$ ,  $\frac{3}{5}$ ,  $\frac{4}{7}$ ,  $\frac{1}{4}$ .
- On every sale of goods worth N10,000.00, there is a commission of N550.00. If an agent delivers N150,000.00, find his commission.  
A. N1,250.00 B. N2,250.00 C. N4,150.00  
D. N7,250.00 E. N8,250.00

- Multiply  $1001101_{\text{two}}$  by  $111_{\text{two}}$ .  
A.  $1001101_{\text{two}}$  B.  $1000101_{\text{two}}$  C.  $1001001_{\text{two}}$   
D.  $1010001_{\text{two}}$  E.  $10011_{\text{two}}$
- A Toyota Hilux uses 100 litres of fuel in a distance of 250km. How many litres of fuel will it use for a distance of 150 kilometres?  
A. 50 litres B. 60 litres C. 80 litres D. 133 litres  
E. 375 litres
- Reciprocal of 0.65 to three significant figure is?  
A. 1.54 B. 1.538 C. 1.53 D. 1.500  
E. 0.54
- If  $\frac{P}{15} = \frac{4}{5}$ , find the value of P.  
A. 4 B. 8 C. 12 D. 16 E. 20
- The length of a basketball pitch can be divided into 12 parts, each 25cm long. How many parts, each 20cm long can be obtained from the pitch?  
A. 12 B. 13 C. 14 D. 15 E. 16
- Find the value of  $x$  in the figure below.



- A. 100cm B. 15cm C. 26cm D. 30cm E. 52cm
- The linear scale of two similar objects is 5:8. What is the volume scale factor?  
A. 5:8 B. 25:64 C. 125:512 D. 64:125  
E. 512:125
- The volume scale factor of two similar solids is 8:125. If the length of a side in the bigger solid is 140cm, find the length of the corresponding side of the smaller solid.  
A. 28cm B. 56cm C. 122cm D. 132cm  
E. 133cm
- The linear scale factor of two similar shapes is 2:7. If the area of the bigger shape is  $392\text{cm}^2$ , find the area of the smaller shape.  
A.  $49\text{cm}^2$  B.  $112\text{cm}^2$  C.  $128\text{cm}^2$  D.  $256\text{cm}^2$   
E.  $264\text{cm}^2$
- How many sides have a regular polygon whose interior angle is  $160^\circ$  each?  
A. 4 B. 5 C. 6 D. 7 E. 8
- One interior angle of a hexagon is  $170^\circ$  and each of the remaining interior angle is equal to  $Y^\circ$ . Find the value of  $Y$ . A. 100 B. 110 C. 130 D. 140 E. 160
- Find the size of an interior angle of a regular octagon.  
A.  $45^\circ$  B.  $60^\circ$  C.  $90^\circ$  D.  $120^\circ$  E.  $135^\circ$
- All the following are the properties of an equilateral triangle EXCEPT. A. All the angles are equal  
B. All the sides are equal C. Each of the angle is  $60^\circ$   
D. There are three lines of symmetry  
E. There is only one line of symmetry
- A regular polygon with 7 sides is called  
A. Heptagon  
B. Hexagon  
C. Nonagon

# 2014 Junior Waec Question Papers

**Mavis Kitcher (Mrs)**



## **2014 Junior Waec Question Papers:**

*Junior Graphic* Mavis Kitcher (Mrs),2014-08-06      **Socioculturally Responsive Assessment** Randy E. Bennett,Linda Darling-Hammond,Aneesha Badrinarayan,2025-05-01 Socioculturally Responsive Assessment assembles the best available thinking from within and outside the educational measurement community about the theoretical foundations and systems level policy implications of formal assessment programs designed to be socioculturally responsive Synthesized from culturally responsive assessment design and practices culturally relevant pedagogy and funds of knowledge universal design for learning the learning sciences and other literatures this emerging concept affirms that students learning and performance is inextricably tied to the social cultural and linguistic contexts in which they live and develop knowledge Across four sections this book provides an argument and initial evidence for impact on students users and assessment quality offers guidance for implementation and examines the potential limitations pitfalls barriers and measurement issues that such programs will inevitably raise Scholars teaching faculty test developers and policymakers will come away with integral foundations new assessment approaches and a greater sense of the potential for positive impact that these assessments may afford      *Daily Graphic* Ransford Tetteh,2010-04-08

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