PRINCESS SHEKINAH INTERNATIONAL SCHOOL, IHIAGWA.

2019/20 ACADEMIC SESSION

SECOND TERM FIRST CONTINUOUS ASSESSMENT TEST

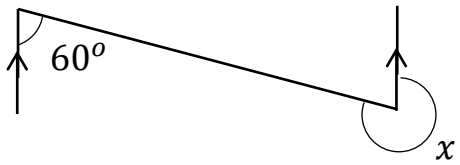
SUBJECT: MATHEMATICS
CLASS: YEAR 9
PART A (Multiple choices)

Instruction: Answer all questions

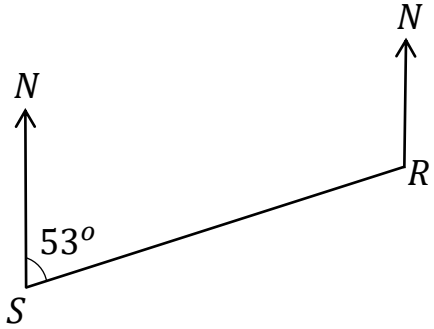
1. If Tolu collects a loan of ₦250,000.00 from a bank at the rate of $11\frac{1}{2}$ interest, how much will she pay as interest at the end of the year? ***[LASSWELL BECE 2019, Q19]***
   A. ₦27,500.00
   B. ₦28,750.00
   C. ₦50,000.00
   D. ₦55,000.00
   E. ₦57,500.00
2. Find the compound interest on ₦800.00 at 4% for 2 years. ***[LASSWELL BECE 2012, Q50]***
   A. ₦3,200.00
   B. ₦865.28
   C. ₦864.00
   D. ₦65.28
   E. ₦64.00
3. Calculate the simple interest on ₦650.00 for 2 years at 6% per annum. ***[LASSWELL BECE 2018, Q11 & 2013, Q14]***
   A. ₦13.00
   B. ₦39.00
   C. ₦65.00
   D. ₦78.00
   E. ₦728.00
4. Calculate the simple interest on ₦1200.00 for 2 $years$ at 15% per annum.
   A. ₦360.00

B. ₦180.00
C. ₦120.00
D. ₦350.00
E. ₦200.00

5. The bearing $S30^oW$ is equivalent to … ***[LASSWELL BECE 2016, Q7]***
   A. 030^o
   B. 060^o
   C. 120^o
   D. 150^o
   E. 210^o
6. Town B is $40km$ due North of town A. What is the bearing of A from B? ***[LASSWELL BECE 2016, Q18]***
   A. 000^o
   B. 090^o
   C. 180^o
   D. 270^o
   E. 360^o
7. If the bearing of A from B is 135^o, what is the bearing of B from A? ***[LASSWELL BECE 2019, Q27]***
   A. 045^o
   B. 090^o
   C. 135^o
   D. 315^o
   E. 360^o
8. Find the value of x in the figure below. ***[LASSWELL BECE 2019, Q40]***
   A. 030^o
   B. 060^o
   C. 120^o
   D. 180^o
   E. 300^o



9. Calculate the bearing of S from R in the diagram below. ***[LASSWELL BECE 2019, Q44]***
   A. 027^o
   B. 053^o
   C. 143^o



D. 233^o

E. 273^o

10. Jones rolls a fair die once. What is the probability of obtaining an odd number? ***[LASSWELL BECE 2012, Q43 & 2015, Q55II]***

A. $\frac{1}{5}$

B. $\frac{1}{4}$

C. $\frac{1}{2}$

D. $\frac{3}{5}$

E. $\frac{2}{3}$

11. A fair coin is tossed once, what is the probability of having a tail? ***[LASSWELL BECE 2012, Q44 & 2015, Q50II]***

A. $\frac{1}{6}$

B. $\frac{1}{3}$

C. $\frac{1}{2}$

D. $\frac{2}{3}$

E. $\frac{5}{6}$

12. A die has six faces. If the die is tossed once, find the probability of not obtaining 2. ***[LASSWELL BECE 2012, Q52]***

A. 1

B. $\frac{5}{6}$

C. $\frac{3}{4}$

D. $\frac{2}{3}$

E. $\frac{1}{6}$

13. A fair die is thrown once. Find the probability of getting a seven. ***[LASSWELL BECE 2012, Q56]***

A. 0

B. $\frac{1}{4}$

C. $\frac{2}{3}$

D. $\frac{1}{2}$

E. $\frac{3}{4}$

14. Find the probability of obtaining an even number when a fair die is thrown once. ***[LASSWELL BECE 2012, Q50]***
    A. $\frac{3}{4}$
    B. $\frac{2}{3}$
    C. $\frac{1}{2}$
    D. $\frac{1}{4}$
    E. $\frac{1}{5}$
15. A dice is thrown once. What is the probability that an odd number does not show up? ***[LASSWELL BECE 2018, Q48]***
    A. $\frac{3}{4}$
    B. $\frac{1}{2}$
    C. $\frac{1}{4}$
    D. $\frac{1}{6}$
    E. $\frac{1}{12}$
16. What is the probability that an integer chosen at random between 1 and 10 is even? ***[LASSWELL BECE 2018, Q59]***
    A. $\frac{9}{10}$
    B. $\frac{7}{10}$
    C. $\frac{1}{2}$
    D. $\frac{3}{10}$
    E. $\frac{1}{10}$
17. In a class of 30 students, 16 are boys. What is the probability that a student chosen at random from the class is a girl? ***[LASSWELL BECE 2018, Q60]***
    A. $\frac{12}{15}$
    B. $\frac{8}{15}$
    C. $\frac{7}{15}$
    D. $\frac{4}{15}$
    E. $\frac{1}{15}$
18. A fair die is tossed once. what is the probability of obtaining a prime number? ***[LASSWELL BECE 2016, Q50II]***

A. $\frac{1}{6}$
B. $\frac{1}{3}$
C. $\frac{1}{2}$
D. $\frac{2}{3}$
E. $\frac{5}{6}$

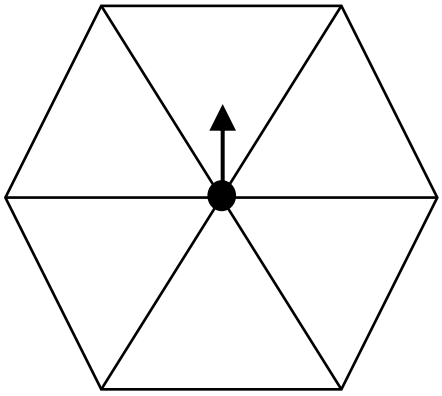
19. A fair coin is tossed once. what is the probability of getting a tail? ***[LASSWELL BECE 2016, Q48II]***
    A. -1
    B. $-\frac{1}{2}$
    C. 0
    D. $\frac{1}{2}$
    E. 1
20. The bearing of B from A is 030^o. What is the bearing of A from B? ***[LASSWELL BECE 2019, Q52]***
    A. 030^o
    B. 060^o
    C. 150^o
    D. 210^o
    E. 240^o

Name: _____ Class: Year 9 _____

Part B: Theory

Instruction: Answer All Questions

1. A fair spinner is in the shape of a regular hexagon.



(a) Write a number on each section so that he probability of getting an odd number is $\frac{1}{3}$.

[1]

(b) What is the probability of **not** getting an odd number?

_____ [1]

[Checkpoint April 2012, Q6]

2. Jade has seven cards.
Each card is labelled with a letter.

A	C	D	F	G	H	J

Jade picks one of her cards a random.

Find the probability that the card she picks is:

(a) labelled F,

_____ [1]

(b) labelled with a letter in her name, JADE,

_____ [1]

(c) a consonant,

_____ [1]

(d) labelled with a letter that has at least one line of symmetry.

_____ [1]

[Checkpoint April 2016, Q8]

3. (a) A holiday costing €540 is offered at a discount of 25%.
Work out the new price of the holiday.

€ _____ [2]

(c) Kwame invests €1000 at 6% interest per year.
Work out the total value of his investment after one year.

€ _____ [2]

[Checkpoint May 2006, Q8a_8b]