PRINCESS SHEKINAH INTERNATIONAL SCHOOL, IHIAGWA.

2019/20 ACADEMIC SESSION

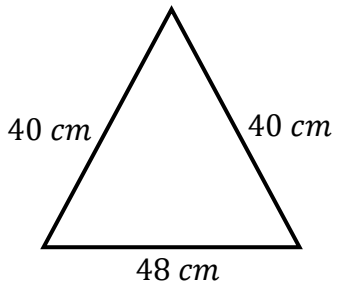
SECOND TERM FIRST CONTINUOUS ASSESSMENT TEST

SUBJECT: MATHEMATICS
CLASS: YEAR 8
PART A (Multiple choices)

Instruction: Answer all questions

1. A cube of length $8\ cm$ is enlarged with a scale factor of $1\frac{1}{2}$. Find the length of the enlargement. ***[LASSWELL BECE 2018, Q4]***
   A. $13\ cm$
   B. $12\ cm$
   C. $11\frac{1}{2}\ cm$
   D. $10\ cm$
   E. $9\frac{1}{2}\ cm$
2. A $450\ m$ long field is drawn to a scale $1cm$ to $90m$. Find the length of the drawing. ***[LASSWELL BECE 2017, Q34]***
   A. $135cm$
   B. $36cm$
   C. $15cm$
   D. $7cm$
   E. $5cm$
3. A map is drawn to a scale of $1\ cm$ to represent $50\ km$. If the actual distance between two villages is $480\ km$, what is the distance on the map? ***[LASSWELL BECE 2016, Q48]***
   A. $4.8\ cm$
   B. $5.0\ cm$
   C. $9.6\ cm$
   D. $48.0\ cm$
   E. $2400.0\ cm$

4. The diagram below is a shape of land which is triangular in shape. If it is drawn to a scale of $1cm$ to $8m$, find the area of the drawing. ***[LASSWELL BECE 2017, Q44]***



A. $24\ cm^2$
B. $12\ cm^2$
C. $10\ cm^2$
D. $5\ cm^2$
E. $6\ cm^2$

5. If $y = 2x$, in completing the table below, find the values of a and b respectively. ***[LASSWELL BECE 2019, Q19II]***

x	-2	-1	0	1	2	3
y	a	-2	0	2	4	b

A. 4 and 6
B. 4 and 4
C. -4 and 6
D. -4 and -4
E. -2 and 3

6. Use the table below to answer the next two questions.

$\times$	-4	-2	0	2	4
-4	16	8	0	A	-16
-2	8	4	0	-4	-8
0	0	0	0	0	0
2	-8	-4	0	4	8
4	-16	-8	0	8	B

[LASSWELL BECE 2012, Q24_25]

7. What is the value of $A \div B$?
A. $-\frac{1}{2}$
B. $-\frac{1}{4}$
C. $\frac{1}{4}$
D. $\frac{1}{2}$
E. 1

8. Find the value of $2(1 - A + B)$
A. 9

B. 18

C. 25

D. 36

E. 50

Use the table below to answer ***the next two*** questions.

$3y = -3x$

x	-3	-2	-1	0	1	2	3	4	5	6
y	a	b	c	d	e	f	g	h	i	j

[LASSWELL BECE 2013, Q43_44]

9. Find the value of $g + j$.

A. -18

B. -9

C. -3

D. 9

E. 18

10. Find the value of $\frac{(a+d)c}{j}$.

A. $-\frac{1}{8}$

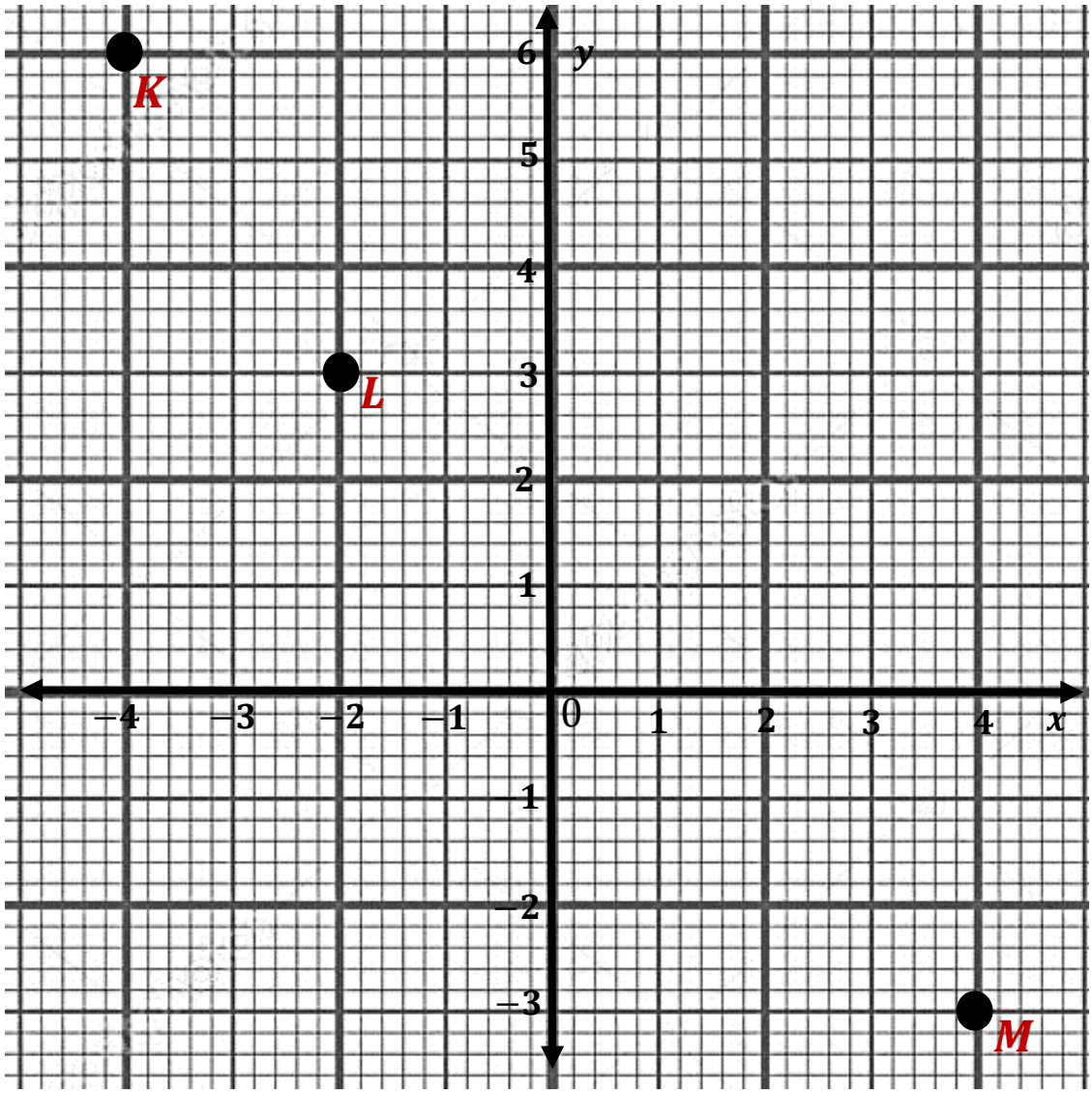
B. $-\frac{1}{2}$

C. 0

D. $\frac{1}{8}$

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

Use the graph below to answer questions 11 to 14. ***[NGM JSS 2, Page]***



11. Find the coordinate of the point K.
    A. $(-4, 4)$
    B. $(-4, 6)$
    C. $(-2, 3)$
    D. $(3, -2)$
    E. $(6, -4)$
12. Find the coordinate of the point M.

A. $(-3, 4)$

B. $(-3, -4)$

C. $(-4, -3)$

D. $(3, 4)$

E. $(4, -3)$

13. Find the coordinate of the point L.

A. $(2, 3)$

B. $(2, -3)$

C. $(-2, 3)$

D. $(3, -2)$

E. $(-3, -2)$

14. Subtract the coordinates of the point L from that of point K.

A. $(2, 3)$

B. $(2, -3)$

C. $(-2, 3)$

D. $(3, -2)$

E. $(-3, -2)$

Use the table below to answer questions 13 to 16 for the relation $y = 2x + 5$.

[LASSWELL BECE 2019, Q19II*]

x	-2	-1	0	1	2	3	4
y	A	3	5	B	9	C	13

15. Determine the value of A.

A. -2

B. -1

C. 0

D. 1

E. 2

16. Find the value of C.

A. 11

B. 12

C. 13

D. 10

E. 28

17. Evaluate $A + B - C$

A. -3

B. 2

C. 1

D. 0

E. 3

The table of values for $2x - y = 5$ is represented below. Use it to answer ***the next two questions***.

x	1	2	3	4	5	6	7
y	a	b	1	3	5	7	g

[LASSWELL BECE 2014, Q34II_35II]

18. What is $a + b - ab$?

A. 3

B. 2

C. 0

D –3

E. –7

19. Find the value of g.

A. 19

B. 9

C. 2

D. –2

E. –9

20. Find the value of $2g - 3a$.

A. 15

B. 18

C. 21

D. 29

Name: _____ **Class: Year 8** _____

Part B: Theory

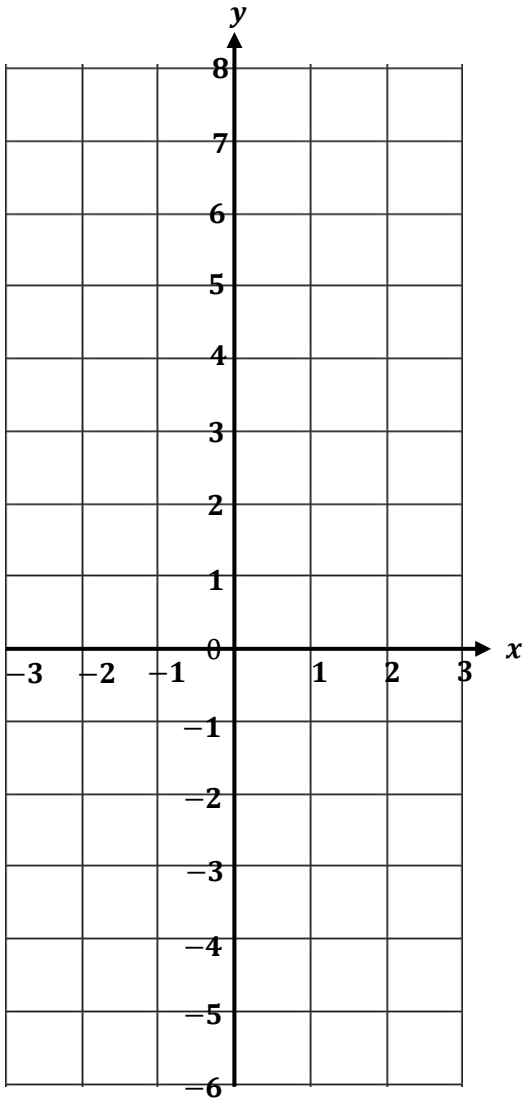
Instruction: Answer All Questions.

1. (a) Complete the table of values for $y = -3x + 2$.

x	-2	-1	0	1	2
y		5	2		

[3]

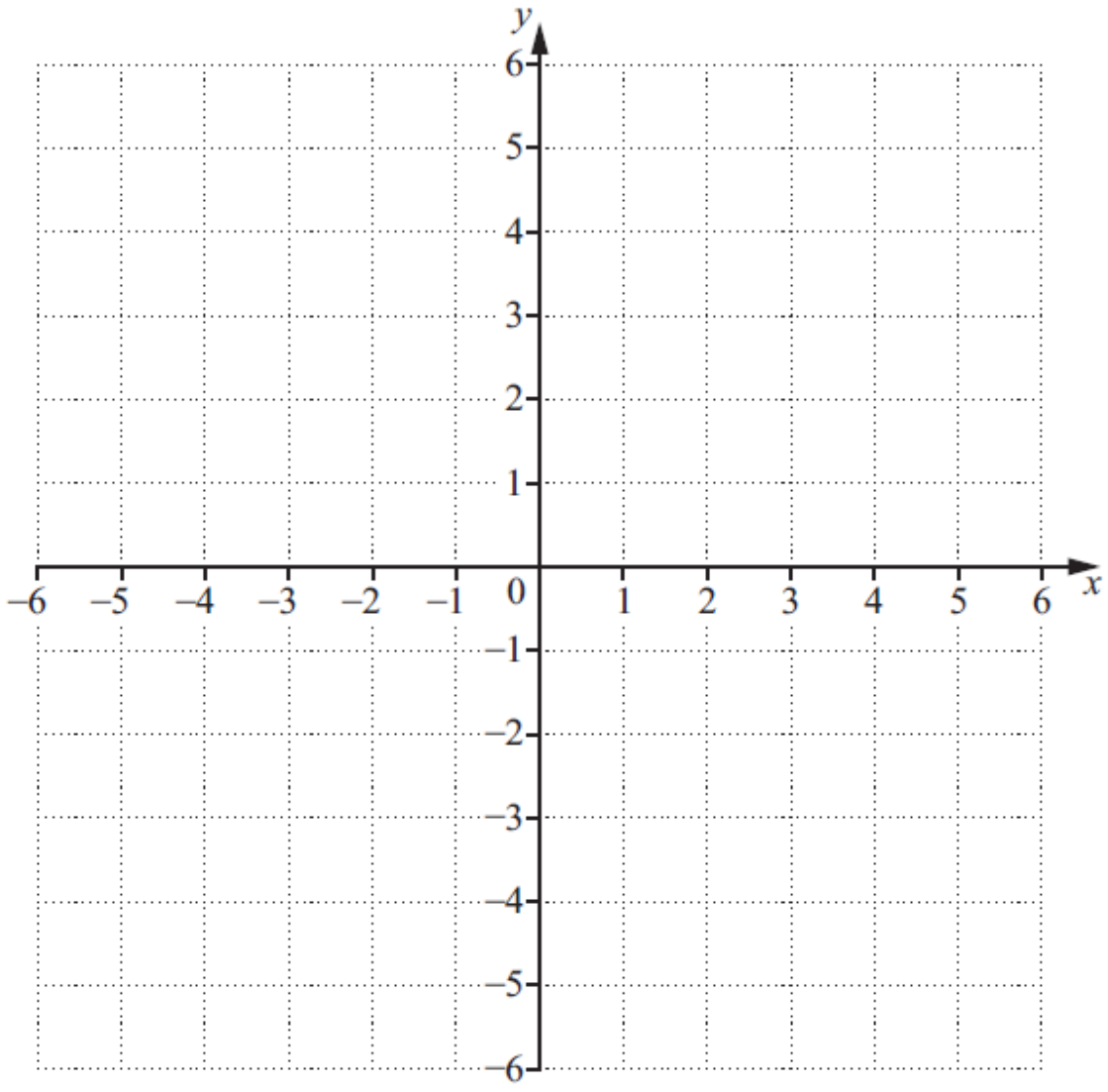
(b) Use your results to plot the graph of $y = -3x + 2$ on the grid below.



[Checkpoint Nov 2005, Q7a_7b]

[$2\frac{1}{2}$]

(c) Plot points A (3, –1), B (3, 3) and C (–4, 2).



[3]

(d) $ABCD$ is a parallelogram.

Write down the coordinate of point D

D(_____ , _____)

[Checkpoint Oct 2005, Q3]

[1½]