



AITEL EXAMINATIONS BUREAU LIMITED

UGANDA CERTIFICATE OF LOWER CURRICULUM EDUCATION

END OF YEAR 2023

S.1 MATHEMATICS

TIME: 2 HOURS 15 MINUTES

SECTION A

(Attempt all the Items in this Section)

1. Alexa looks at her watch and sees that the time is

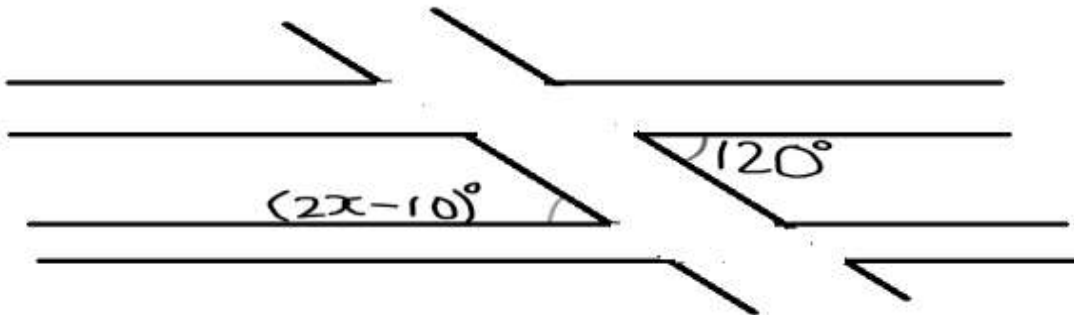


- Write this time in words.
 - What will be the time 10 minutes later?
2. A senior two student is standing facing South East, What direction will he/she be facing after turning



- Anti-clockwise 45°
- Clockwise through 140°

3. The figure below is a plan made by a district engineer in a bid to have a well-constructed road. With reasons for each of your calculations, help the engineer to find the value of the unknown x in plan.



4. A survey was carried in a secondary school to find out what transport means the students used to travel to school. The data obtained from the survey on 35 students was represented on a pie chart as shown below.



of transport used by the students?

- b. How many of the students travel to the school by Bike.

- a. What is the most common means

5. A company selling newspapers spends UGX 1,500 to produce a copy of the newspaper and sells it at UGX 2,000. On a given day, the company produced 2000 copies and managed to sell 1000 copies only.



- i. Did the company make a profit or loss on that day?
- ii. Calculate the percentage profit/ loss for the day.

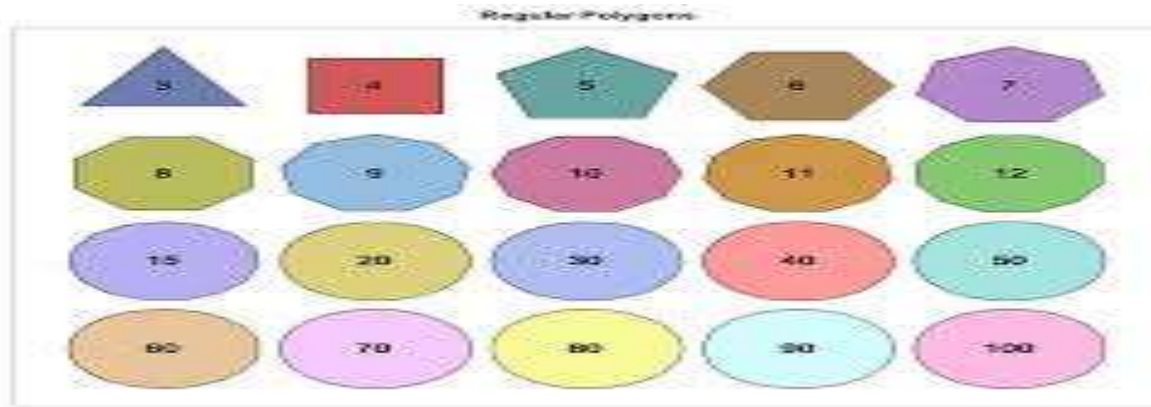
6. Twice the age of John after 4 years is the same as four times his age 12 years ago. What could be John's present age.



7. Find the new position of a boy standing at a point (2, 5) if a mirror is placed vertically in front of him.



8. The interior angle sum of a regular polygon is 1800° . How many sides has the polygon? Name the polygon.



9. A young boy was playing using straws which he arranged in groups of 2 four fours, 2 fours and 2 ones. How many straws did he have all together.



10. Martin exercises every 12 days and Daniel every 8 days. Martin and Daniel both exercised today. How many days will it be until they exercise together again?



SECTION B

(Attempt all the Items in this Section)

11. An eagle flies from a window due North for 300km to the rooftop of a building . On seeing a chick on the ground it then flies on a bearing of 135° for 500km to pick it up. From there it flies away on a bearing of 060° for 200km to a nearby tree to have its meal.



- i. Use a scale of 1cm to represent 50km, draw an accurate diagram to show the route of the bird.
- ii. Find the distance between the rooftop and the mango tree.

12. In an election involving three candidates A, B and C, candidate A got 30% of the total valid votes, candidate B got $\frac{2}{5}$ of the total votes. 0.2 of the total votes were declared invalid. If candidate C got 60,000 votes number of votes. Find the number of;

- a) total votes cast.
- b) valid votes polled in favor of the candidate A.
- c) valid votes polled in favor of the candidate B.



END