

BUKEDDE MOCK EXAMINATION 2023 MATHEMATICS

Time Allowed: 2 hours 30 minutes

Personal No		

Read the following Instructions carefully:

- The paper has two sections; A and B.
 Section A has 20 questions and section B has 12 questions.
- 2. Answer all questions. All answers to both Section A and B must be written in the spaces provided,
- 3. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
- 4. Unnecessary changes in your work may lead to loss of marks.
- 5. All handwriting that cannot be easily read may lead to loss of marks.

SCORES					
Qn No	Marks				
1 - 20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

sh. 30,000. He later sold it to Mary at a loss of

10%. How much did Mary pay for the phone?

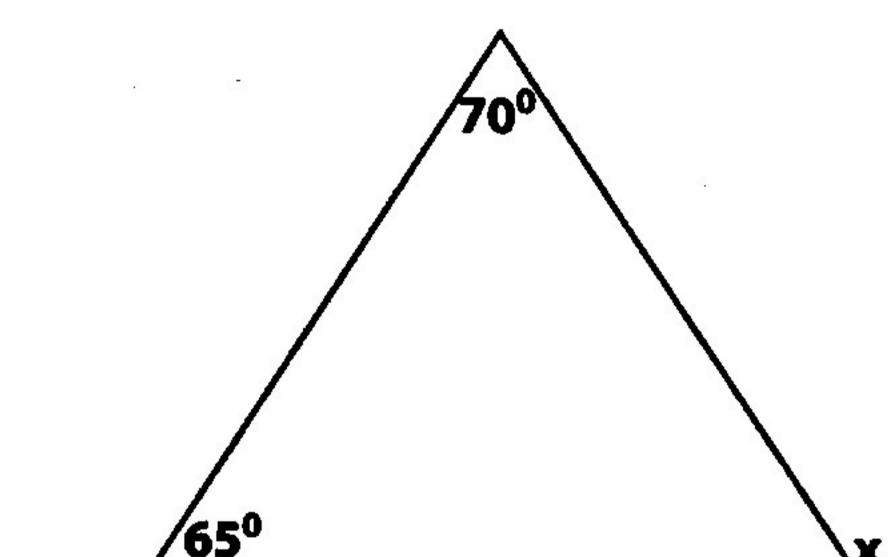
1. Find the missing number in the statement shown 1. 7. Bamuteze bought a small techno phone at below.

2. Set R = {1, 2,3, 4, 5, 6}. What is the probability of choosing a triangular number from set R?

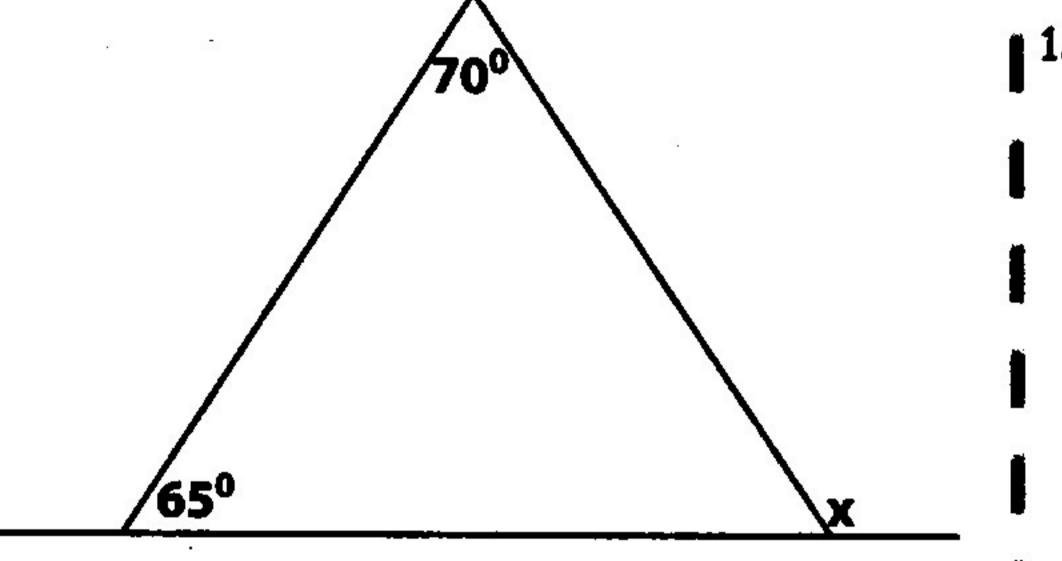


11. Convert 324 five to base ten.

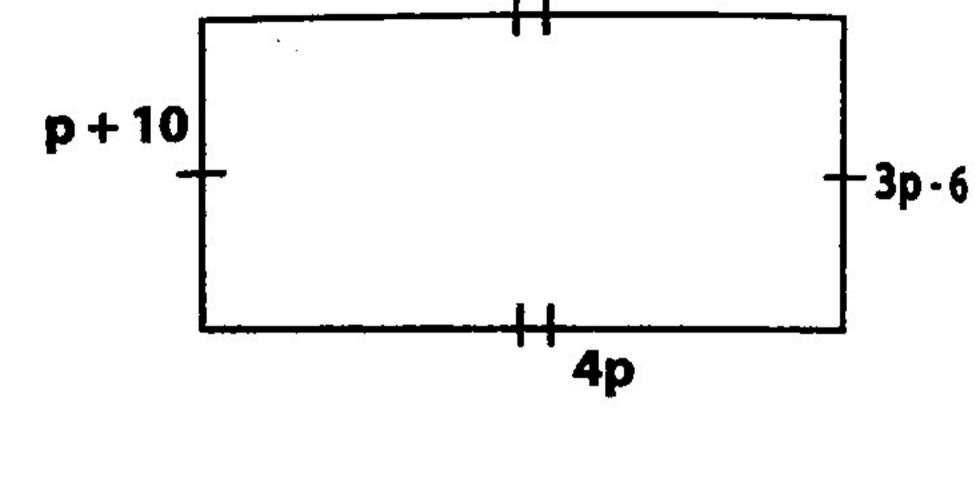
3. Expand 256 using values.



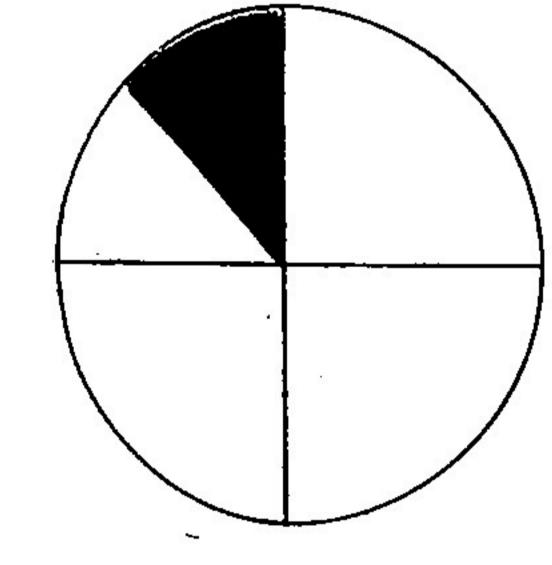
8. Study the figure below. Find angle X.



12. Study the figure below and find the value of P



4. What fraction of the figure below is unshaded?

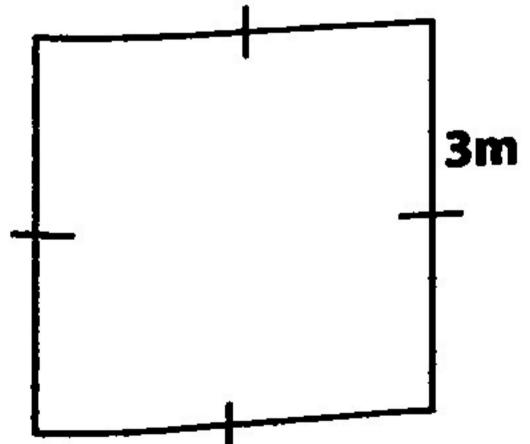


5. Ada scored 45, 90 and 75 in different Maths tests. Calculate her mean score.

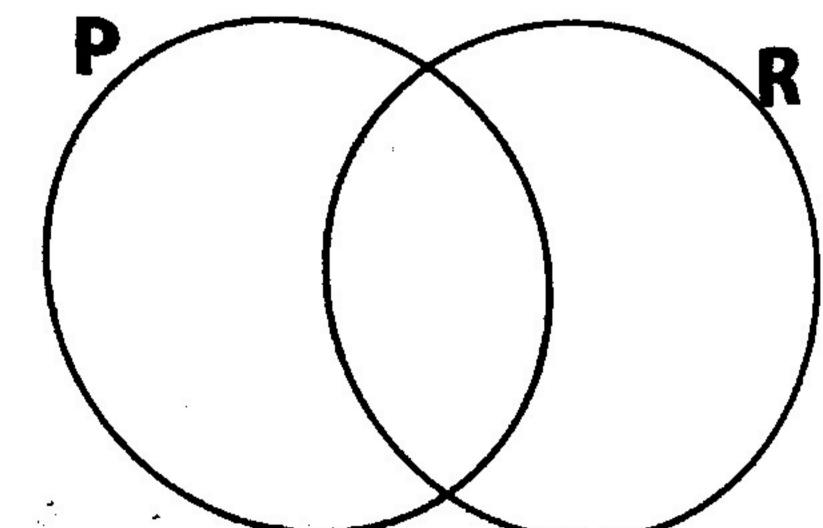


13. If 3402 sweets are shared equally among 14 girls how many sweets does each girl get?

6. The figure below represents the floor of a bathroom. Calculate its area in square centimetres.



- 10. While travelling at a speed of 80km per hour, Mama covered a distance of 200km. Calculate the time taken.
 - 14. Shade set R only in the Venn diagram below.



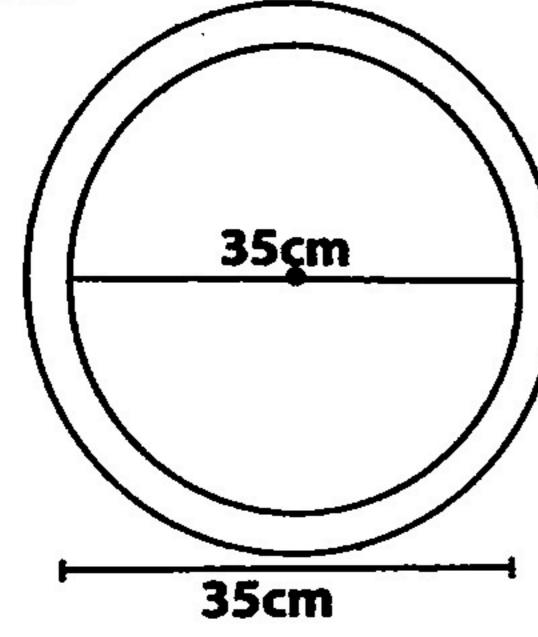
Betelle

- 15. Work out the number of trees a farmer can plant in a straight line along a distance of 200 metres at an interval of 5 metres.
- 16. Using a ruler and a pair of compasses only, construct an angle of 75° at point Q.
- 19. Mr. Vuni barrowed sh. 200,000 from a savings group that charges an interest rate of 4% per month. How much interest did he pay after 5 months?

- 18. Write the number whose standard form is 6.58×10^3 .
- 17. A car takes $2\frac{1}{2}$ hours to cover a certain journey at 90km/hr but takes $3\frac{1}{2}$ hours to return through the same route. Calculate the average speed for the w hole journey.
- 20. Work out: 8.4 ÷ 0.07

SECTION B

21. The diagram below represents a bicycle tyre. How much distance does it cover if it makes 3 revolutions?



22. In a class of 35 students, 26 play Hockey (H), 20 play Netball (N) play both games while 5 play NEITHER of the games.

n(Σ) = 35

a) Complete the Venn diagram using the information above.

b) Find the value of x.

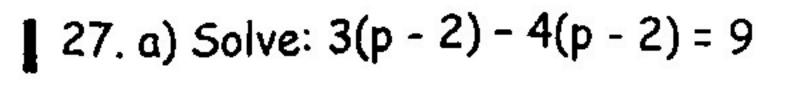
23. a) Ten men can do a piece of work in 14 days. How long will 7 men take to do the same piece of work while working at the same rate?

c) If x = 20%,

5

what is the value of x?

24. a) Using a pair of compasses and a ruler only, construct a triangle ABC in which BC = 6cm, angles $ABC = 120^{\circ}$ and angle BCA = 30°

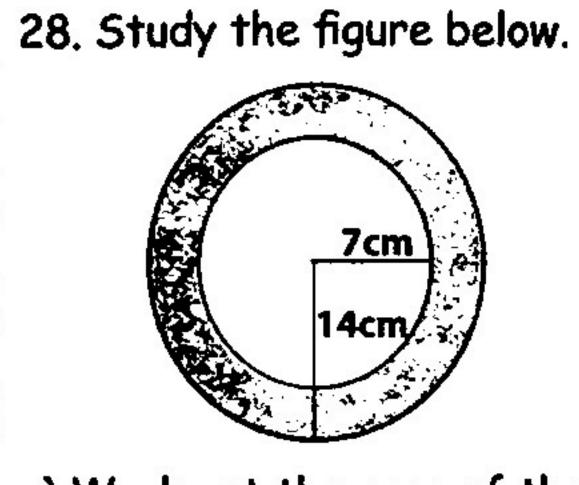


- b) If today is Saturday, what day of the week was it 42 days ago?
- b) Kadelo is four times as old as his son. Their total age is 50 years. How old is kadelo's son?
- 31. Study the table below showing scores in math test.

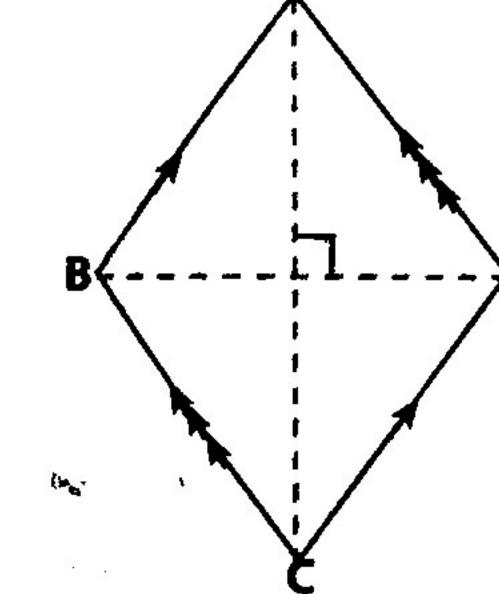
Name	Njuba	Opi	Juma	Owino	Mwebe
Marks obtained	86	45	X	72	83

a) If the mean score was 70, find the value of x.

- b) Measure AC
- 25. The diagram below is a rhombus ABCD. It has a perimeter of 80cm, diagonal BD =24cm.



- a) Work out the area of the shaded part.
- b) Arrange the marks in descending order.

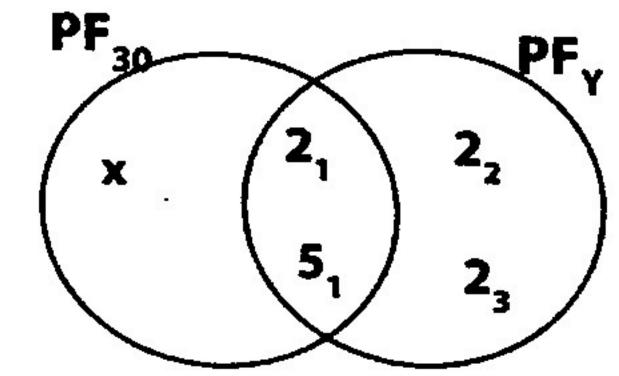


a) Find the length of AC

c) What was the median mark?

b) Find its area.

- b) Calculate the circumference of the larger circle.
- 1 32. Study the Venn diagram below:



- a) Find the value of:
- i) x

26. Mama bought the following items:

- 3 kg of posho at sh. 4,000 per kg
- ½ kg of fish at sh. 20,000 per kg
- 500g of beef at sh. 7,000
- a) How much did Mama spend altogether?
- 29. Willy banked sh.200,000 for 1 year 3 months in a certain bank; He got an interest of sh.12500 at the end of that period. Find the percentage interest rate of this bank.
- ii) y

- 30. a) Work out: 5 x 7 = ____(finite 8)
- b) Work out the LCM of 30 and y.

b) Mama got a change of sh. 1000. Find the amount of money Mama had before buying the items.