

AGGREGATE:

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TAIBAH JUNIOR SCHOOL

PRIMARY SEVEN 2022

MAJESTIC SET 1 (ONE)

TERM TWO EXAMINATIONS

MATHEMATICS

TIME ALLOWED: 2 HOURS AND 30 MINUTES

PERCENTAGE:

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Index number:

RANDOM NUMBER						PERSONAL NO.		

Candidate's name:

Candidate's signature:

Stream: District:

Read the following instructions carefully:

1. This paper is made up of **two** sections **A** and **B**. **Section A** has **20 questions** (40 marks) and **section B** has **12 questions** (60 marks)
2. Answer **ALL** questions in this booklet. All working for sections **A** and **B** **must** be written in the spaces provided with a **very legible** and **neat** handwriting.
3. Use a **pen** with **blue ink** for writings and use a **pencil** for underlining, drawing and shading diagrams, tables and graphs.
4. Avoid **unnecessary** dirt, crosses and **changes of work** in your paper.
5. **No calculators** are allowed in the examination room.

SECTION	SCORE
A	
B	
TOTAL	

**TEACHER'S COMMENT TO
THE PUPIL:**



SECTION A (40 MARKS)

1. Add: $42 + 52$

2. Simplify: $5z - 7y + 2z - 2y$

3. Calculate: $\frac{0.8}{0.4 \times 0.2}$

4. Given that; Set $A = \{r, s, t\}$, how many subsets does set A have?

5. Find the square of the next number in the sequence.

2, 3, 5, 7, _____



6. The place value of 6 in a number is Ten thousands. Work out the value of 6 in the same number.

7. Given that  represents 17 cups and  represents 25 plates. Find the number of cups and plates represented by the pictures.



8. Work out: $-3 - -12$

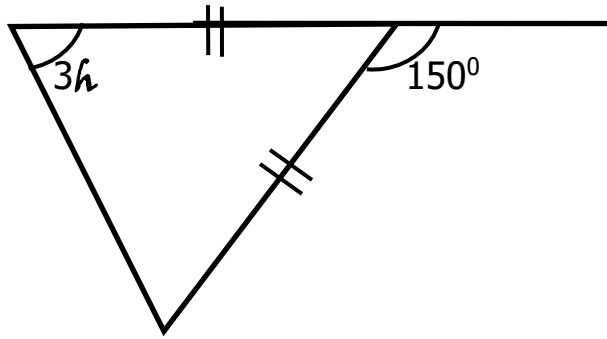
9. A thirty-three minute meeting ended at the time shown on the clock face in the morning.



At what morning time had it started?



10. Study the diagram carefully and use it to find the value of h in degrees.

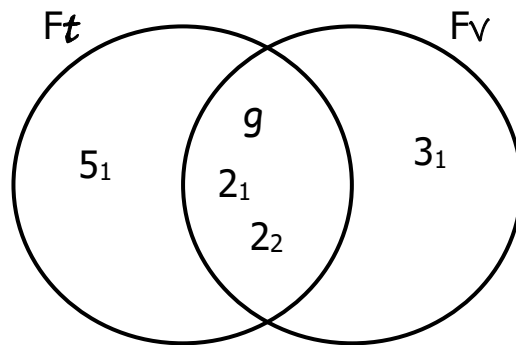


11. A minute hand of a big road clock face at a round about measures 7 metres. Calculate the area of the full circle made by its tip each revolution in square centimetres (cm^2).

12. In a class of 30 pupils, $\frac{2}{3}$ of them are girls and the rest are boys. If $\frac{3}{5}$ of the girls are day scholars, how many girls are day scholars in the class?



13. The prime factors of t and v are shown on the Venn diagram.



If lowest common multiple (LCM) of t and v is 780, work out the value of g .

14. The median of $2m$, $5m$, m and $2m$ is 16. Work out the value of m .

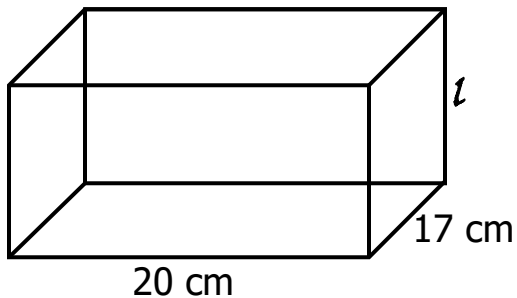
15. The perimeter of a rectangle is 14 cm. If its length is 5 cm, work out its width in centimetres.



16. The cost of 1 Kg of sugar is sh. 4,400. If Hussein bought 250 grams of sugar, how much did he pay?

17. A cyclist covered a journey of 3 Km in 12 minutes. Calculate his speed Km/hr.

18. The volume of the container is $3,400 \text{ cm}^3$.



Work out the length of height l in cm.

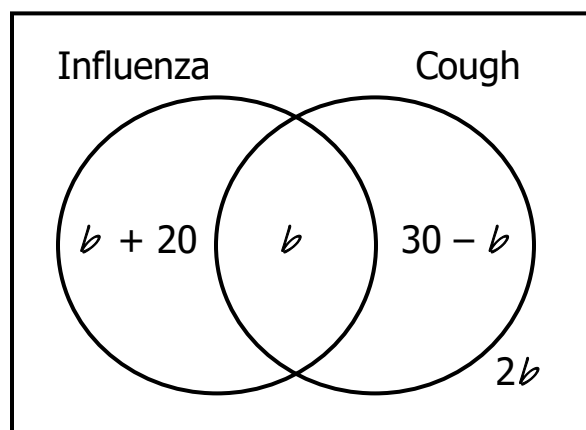


19. With the help of a pair of compasses, a ruler and a sharp pencil, construct an angle of 75° .

20. Solve for n : $\frac{2n+6}{5} = 6$

SECTION B (60 MARKS)

21. The Venn diagram below shows the number of candidates who suffered from different respiratory diseases through out term three 2022 in certain Primary Seven class.



If there are 65 candidates in the whole class;



(a) How many pupils were resistant to Influenza throughout the term?
(03 marks)

(b) What is the probability of choosing a pupil at random who was resistant to the two mentioned diseases throughout the term?
(02 marks)

22. (a) Convert 102_{three} to base five. (03 marks)

(b) Simplify: $\frac{p^2 \times p^{-4}}{p^3}$ (02 marks)



23. $\frac{2}{5}$ of a passion fruit juice is water and the rest is passion fruit.

- (a) Find the capacity of the water in the juice if there are 27 litres of passion fruit. *(03 marks)*

- (b) By what percentage is the capacity of the passion fruit more than the water in the juice? *(02 marks)*

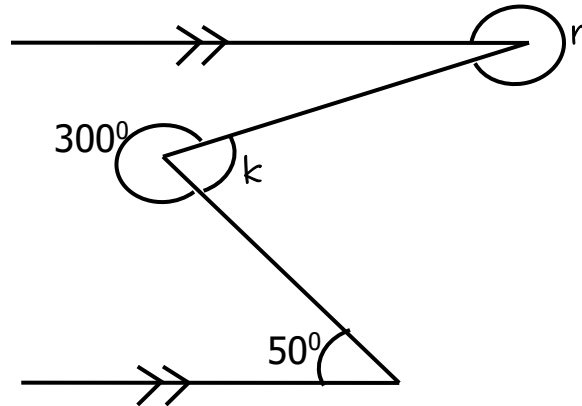
24. Malaika went shopping with sh. 20,000. Complete the table by showing the working if she went back home with a change of sh. 3,000.

ITEM	QUANTITY	UNIT COST	AMOUNT
Rice	1 ½ Kg	Sh.a Kg	Sh. 4,500
Cooking oil	2 litres	Sh. 2,500 per litre	Sh.
Meat Kg	Sh. 11,000 each kilo	Sh. 5,500
Tomatoes tomatoes	Sh. 500 for every 3	Sh.
TOTAL EXPENDITURE			Sh.

(06 marks)



25. Study the diagram carefully and use it to answer the questions that follow.



(a) Find angle k in degrees.

(02 marks)

(b) Calculate the value of angle r in degrees.

(03 marks)

26. Husni has a cylindrical flask containing 3.08 litres of milk. If the height of the milk in the flask is 20 cm;

(a) Calculate its radius

(03 marks)



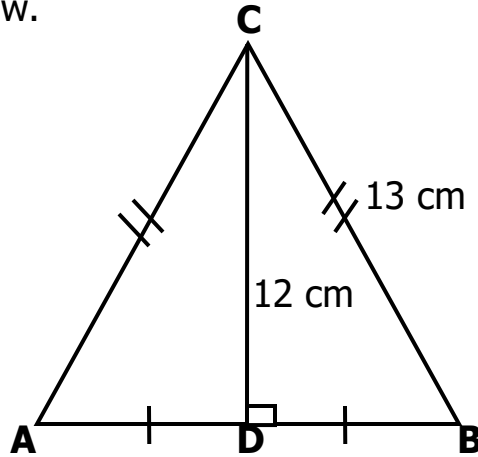
(b) What is the capacity of the flask when it is $\frac{5}{8}$ full? *(02 marks)*

27. (a) After selling an item at sh. 72,000, Achari realized that he had made a 20% profit. Find how much Achari had bought this item. *(02 marks)*

(b) In a village meeting, there were $\frac{1}{7}$ more females than males. If there were 84 people, how many females were in the meeting? *(03 marks)*



28. The figure is of an Isosceles triangle ABC where side $AC = BC = 13$ cm. Length AD is half of the base AB. The perpendicular height CD is 12 cm. Use it to answer the questions that follow.



- (a) Find the base of the triangle AB.

(03 marks)

- (b) Work out the area of the triangle.

(02 marks)

29. Here are the ages of seven children immunized from Lubanja Health Centre against Ebola disease.

9 years, 8 years, 9 years, 7 years, 8 years, 14 years and 8 years.

- (a) What is their modal age? *(01 mark)*



(b) Find the range of their ages.

(01 mark)

(c) Work out their average age.

(02 marks)

30. The table shows how the link bus travels from Kampala to Kasese.

PLACE	ARRIVAL	DEPARTURE	DISTANCE
Kampala	--	0600 HR	--
Bujuuko	0645 HR	0650 HR	140 Km
Mityana	0820 HR	0830 HR	170 Km
Kiganda	0950 HR	0955 HR	150 Km
Mubende	1125 HR	1135 HR	145 Km
Kyegegwa	1305 HR	1315 HR	184 Km
Fort Portal	1345 HR	1350 HR	77 Km
Kasese	1450 HR	--	88 Km

(a) Write the time the bus reaches Kyegegwa in 24-hour clock system.

(02 marks)

(b) Calculate the bus' average speed for the whole journey from Kampala to Kasese.

(04 marks)



31. At a shop, the cost of a pen is sh. 500 less than the cost of a geometry set. A book costs twice as much as a geometry set. If the cost of a pen and a geometry set altogether is sh. 3,500, how much does Raniah need to pay for 2 books?

(04 marks)

32. At Taibah junior school, stream Raven is 6 metres due North of stream Francolin. Stream Seagull is on a bearing of 060° from stream Francolin a distance of 10 metres away.

(01 mark)

(a) Draw a sketch diagram to show the three streams.

(b) Draw an accurate diagram to show the three streams using a scale of 1 cm represents 2 metres.

(03 marks)

(c) Find the bearing of Seagull from Raven. *(01 mark)*

THE END

