RAAYAT ISLAMIC PRIMARY SCHOOL

MATHEMATICS – SET 2
Time Allowed 2 Hours 30 Minutes

Index No.

Random Number						Personal No.		

Candidates' Name .....

Candidate's Signature.....

School Random No. .....

District ID: .....

Read the following instructions carefully:

1. This paper has two section A and B
2. Answer all questions and all answers to both Sections A and B must be written in the spaces provided.
3. All answers must be written in blue or black ink ball-point pen or fountain pen.
4. Unnecessary changes of work may lead to loss of marks.
5. **Any** handwriting that cannot easily be ready may lead to loss of marks.
6. **Do** not fill anything in the boxes indicated "For Examiners' Use Only" and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn.No.	Marks	EXR'S NO.
1-10		
11-20		
21-22		
23 - 24		
25 - 26		
27 - 28		
29 – 30		
31 – 32		
TOTAL		

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SECTION A (40MARKS)

Answer all *questions in this section. Questions* 1-20 *carry* two *marks each*

1. Work out: $91 - 0.9$

2. Simplify: $a^2 - a + 2a^2 - 3a$

3. Find the number that has been expanded to give

   $(4 \times 10^4) + (6 \times 10^2) + (3 \times 10^{-2})$

4. Given that:

   $A = \{Prime\ numbers\ less\ than\ 15\}$

   $B = \{Triangular\ numbers\ less\ than\ 15\}$

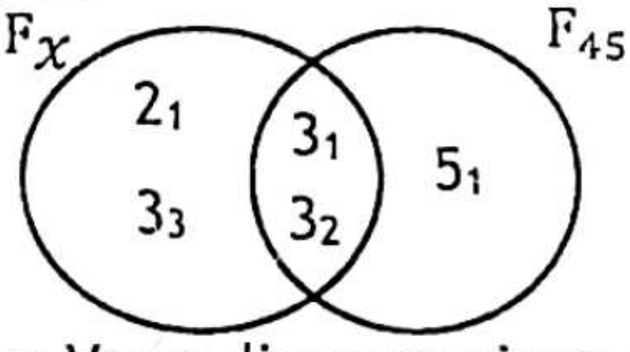
   Find $n(B - A)$

5. Round of 4.963 to the nearest tenth.

6. Write 946 in Roman numerals.

7. Using a pair of compasses a ruler and a pencil only, construct an angle of 75^0 in the space below.

8. The Venn diagram shows prime factors of x and 45.

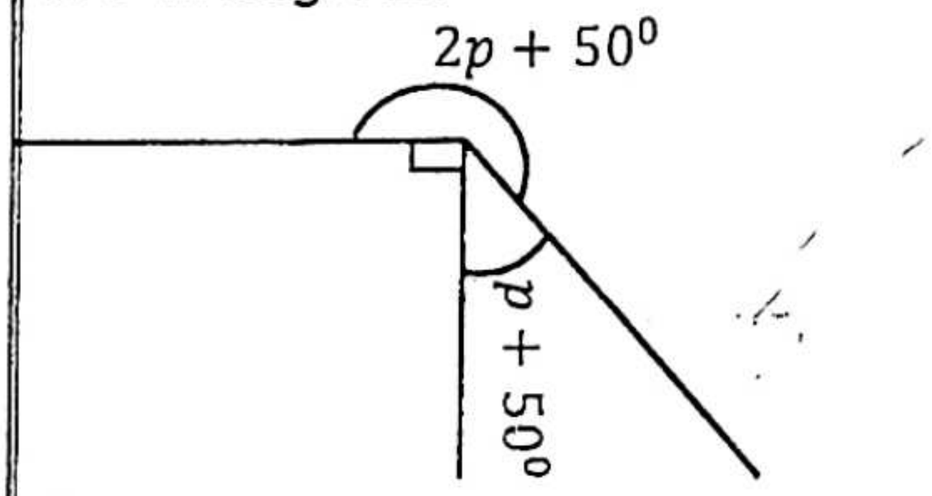


   Use the Venn diagram given above to find the value of x.

9. A wedding party which lasted for $4\frac{2}{3}$ hours ended at 8:15 P.m. When did the party start?

10. Tea is sold in packets of 250g. How many packets can be made from $4\frac{1}{2}$kg of tea?

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11.	A bus park has 345 rows and each row has 48 parking spaces. How many buses can be parked in the park?	12.	If $x = -3$, $y = 1$ and $z = -4$, find the value of $\frac{2y-xz}{y^2-z}$.
13.	Mujasi deposited sh.1,200,000 in a bank for 4 years and earned an interest of sh.156,000. What was the rate of the interest per annum?	14.	In a class, there are 74 boys and 46 girls. What is the probability that a pupil selected at random is a boy?
15.	In the figure below, find the value of P in degrees. 	16.	If this month is march, what month of the year was it 42 months ago?
17.	Julius bought a sack of rice for sh.335,000. He later sold it making a loss of sh.45,500. What was his selling price?	18.	The perimeter of the semi - circle below is 72cm. Find the diameter of the semi - circle. $\left(Take\ \pi = \frac{22}{7}\right)$ 

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19.	A car takes 2hrs 24minutes to cover a distance of 180km. How long does it take to cover 120km?	20.	The following are marks obtained by some pupils in a mathematics test. 71, 82, 73, 88, 84, 68, 80. Find the median mark.

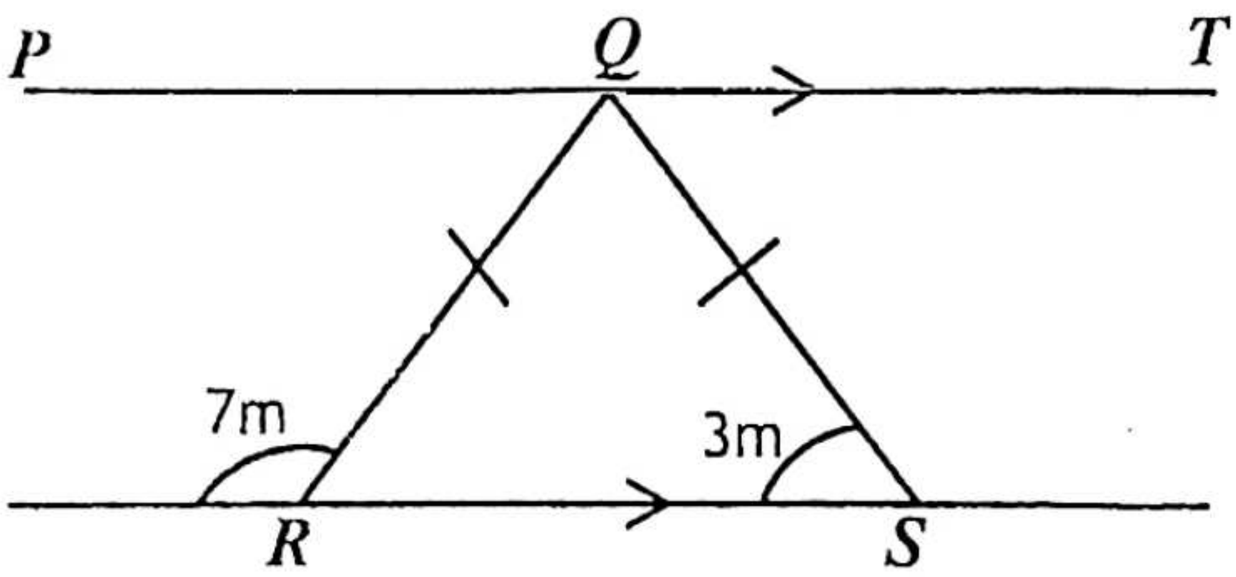
SECTION B (60MARKS)

Marks for each part of the question are indicated in brackets

21. (a) Simplify: $\frac{8K^3 \times 6K^4}{12K^5}$ *(02marks)*

(b) Solve: $7^{2n} \times 7^4 = 1$ *(03marks)*

22. Use the figure below to answer the questions that follow.



(a) Solve for the value of m in degrees *(02marks)*

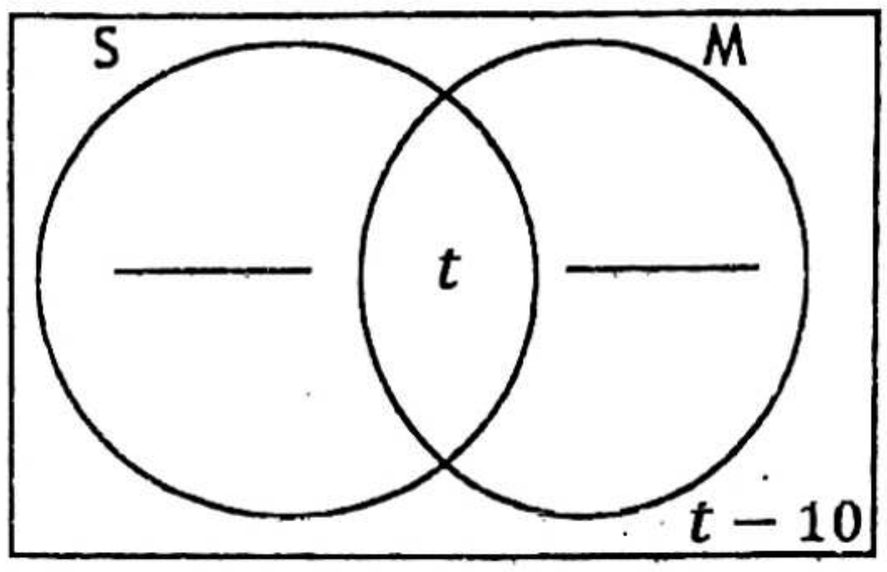
(b) Find the size of angle marked PQS. *(03marks)*

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23. A school has a teaching staff of 72 teachers. 55 teach social studies (S), $(t-17)$ teach mathematics (M) but not Social studies. t teach both Social studies and Mathematics while $(t-10)$ do not teach any of the two subjects.

(a) Use the information given above to complete the Venn diagram below. *(02marks)*

$$n(\varepsilon) = 72$$



(b) Find the value of t. *(02marks)*

(c) If a teacher is picked at random, what is the probability that the teacher teaches only one subject? *(01mark)*

24. (a) Using a pair of compasses, a ruler and a sharp pencil only, construct a triangle ABC, where line $AB = 7.2$cm, angle $ABC = 135^0$ and line $BC = 8$cm *(04marks)*

(b) Measure line $\overline{AC}$. *(01mark)*

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25. Kasujja is 60 years. Kasakya is 24 years old.

(a) After how many years will Kasakya be half as old as Kasujja? *(03marks)*

(b) How old will Kasakya be then? *(02marks)*

26. In a school of 900 pupils, 60% of them are girls and the rest are boys. If 30% of the boys and 40% of the girls were registered by NIRA.

(a) Find the number of boys in the school. *(02marks)*

(b) How many pupils were registered by NIRA? *(03marks)*

27. A cyclist riding from Busi village arrived in Wakiso town at 12:30P.m. if the journey took 50 minutes,

(a) At what time did the cyclist leave Busi? *(02marks)*

(b) If the village is 60km away from Wakiso town, calculate the average speed of the cyclist in metres per second. *(03marks)*

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28. The rates at which a bank buys and sells foreign currencies are given in the table below. Study it and use it to answer the questions that follow.

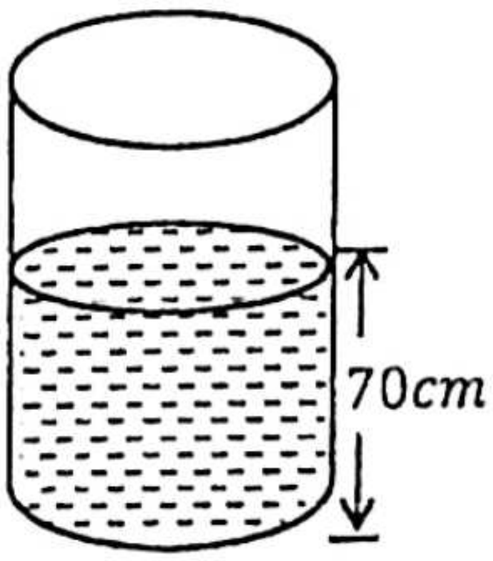
Currency	Buying rate	Selling rate
1 US dollar ($)	Ugsh. 3,600	Ugsh. 3,700
1 Pound sterling (£)	Ugsh. 4550	Ugsh. 4650
1 Kenya shilling (Ksh)	Ugsh. 35	Ugsh. 36

(a) If Byamukama has £ 3500, how much money in Uganda shillings will she get from the bank? *(02marks)*

(b) If Kasawuli has Ksh.22,200, how many dollars will he get from the bank? *(03marks)*

29. The diagram below is a cylindrical tank containing 10.78 litres of water.

(a) Find the radius of the tank. (*Take* $\pi = \frac{22}{7}$) *(03marks)*



(b) If the tank is $\frac{3}{7}$ full of water, find the capacity of the tank. *(02marks)*

30. The table below shows the ages of children in a certain home.

Age in years	3	4	6	7	9	10
No. of children	2	1	3	8	W	2

(a) If the mean age of the children is 7years, find the value of W. *(04mark)*

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(b) How many children are in that home? *(01mark)*

31. Ssenabulya went for shopping and bought the following items.
3kg of rice at sh.3400 per kg; 500ml of milk at sh.3600 per litre, 24 mangoes at sh.800 for every 30 mangoes, 2kg of beans at sh.5600.

(a) Find the total cost of the above items. *(04marks)*

(b) If he paid sh:11,600 for all the items after a discount was offered.
Work out the discount *(01mark)*

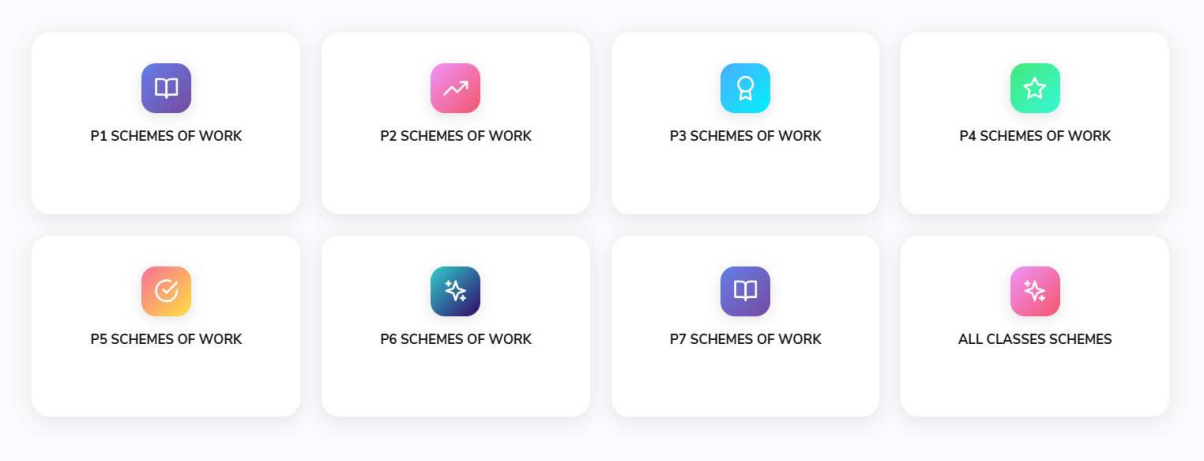
32. (a) Find the value of K.
$4 \div 7 = K \pmod{12}$ *(02marks)*

(b) The head teacher had some books. When she shared them equally among 4 pupils, one book remained. When she shared them equally among 7 pupils, 3 books remained. How many books did the head teacher have?
(03marks)

END

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