

# OUTREACH SCHOOLS EXAMINATIONS BOARD MOCK PREPARATION SET FIVE

#### PRIMARY SEVEN

2023

#### **MATHEMATICS**

Time Allowed: 2hours 30 Minutes

Random No.			Pers	sonal N	lo.

Candidate's Name:	•••••	•••••	••
Candidate's Signature:	• • • • • • • • • • • • • • • • • • • •	•••••	••
School Name:	• • • • • • • • • • • • • • • • • • • •	•••••	••
District No:	FOR E	XAMINERS	3'
	U	SE ONLY	
Read the following instructions carefully:			
1. This paper has two sections: <b>A</b> and <b>B</b>	Qn. No.	MARKS	EXR'S
2. Section <b>A</b> has 20 short questions (40 marks)			No.
<ol> <li>Section <b>B</b> has 12 questions (60 marks)</li> <li>Answer all questions. All the working for both sections</li> </ol>	1 - 10		
A and B must be shown in the spaces provided.  5. All working must be done using a blue or black ball	11 - 20		
point pen or ink. Any work done in pencil will NOT be			
marked except drawings and diagram.	21 - 30		
6. Unnecessary changes in your work and handwriting			
that cannot be easily read may lead to loss of marks.			

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"For examiners' use only" and the boxes

7. Do not fill anything in the table indicated

inside the question paper.

**Turn Over** 

1

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P.7 MTC

31 - 32

**TOTAL** 

#### **SECTION A**

SEC.	ΓΙΟΝ A
1. Divide: 0÷5	2. Simplify: 5a+2d-a
3. Find the expanded number (4x10 <sup>3</sup> )+(7x10 <sup>1</sup> )+ (3X10 <sup>-2</sup> )	4. Write 44 in Roman numerals.
5. If $A = \{Prime numbers less than 10\}$ Find $n(A)$	6. Find the area of the rectangle  4dm 7dm
7. Solve: 2m - 4=10	8. Find the value of angle marked y.
9. Add 224 <sub>five</sub> + 112 <sub>five</sub>	10. A forty-five minutes' lesson ended at 9:30am. At what time did it start?

P.7 MTC

2

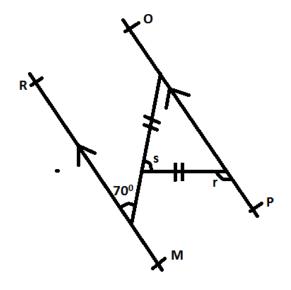
11. A car covered 60km in 15minutes. Calculate its speed in m/s	12. What is the next number in the sequence? 4, 5, 7, 10,
13. Decrease 800 by 20%	14. Using a pair of compasses only construct an angle of 120°.
15. If a pen costs 400/=. How many pens can be bought with 2,400/=	16. Shade (PnQ)/
17. A square field has an area of 1600m², find the total distance around it.	18. If <b>0</b> represents 8 balls. Draw the pictures to represent 40 balls.
19. Express 0.333 as a common fraction.	20. Add: $1\frac{2}{3} + 2\frac{1}{3}$

#### **SECTION B**

21. Using a ruler a pair of compasses only construct triangle ABC where BC = 6cm, angle  $ABC = 30^{\circ}$  and angle  $ACB = 60^{\circ}$  3marks

(b) Measure AC 1mark

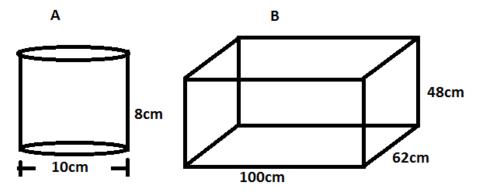
22. In the figure below find the values of angles marked r and s.4marks



23. (a) Simplify: 2 (2x + 4) **2mks** 

(b) Solve 2k - 4 = 142mks

## 24. (a) Given that tins of size A were packed in a box of size B.



(a) Find the number of tins that were packed in the box altogether **2marks** 

(b) Calculate the capacity of the box in litres

### 2marks

## 25. The table below shows a shopping list. Fill the blanks.4mks

Items	Quantity	Unit cost	Amount
meat	2kg	sh. 1500 @kg	
sugar	$2\frac{1}{2}$ kg	sh. 1400 @kg	
rice	kg	sh. 1600@kg	sh. 3200
salt	4kg	sh@kg	sh. 1600

(b) If the shopper had 20,000/= calculate the change he got.2mks

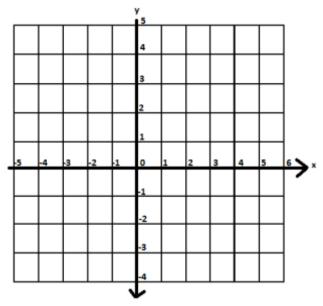
26(a) Simplify:  $\frac{8.4 \times 0.02}{0.7 \times 0.6}$  2mks

(b) Expand 62.5 using powers.2mks

27. Use the grid below and plot the following 4mks

Points: A(-3,-3) B(3,-3) C(3,3) D(-3,3(b) Join the points A to B, B to C, C to D and D to A.**1mk** 

(c) Calculate the area of the shape.1mk



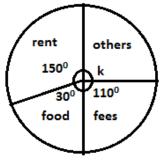
28. The sum of three consecutive counting numbers is 39. Find the numbers.

3mks

6

(b)	Calcu	late	their	mean	2mks
$(\sim)$	Garoa	10.00		mount	

- 29. The pie chart below shows Ali's expenditure for the month of March, where he earned 720,000/=
- (a) Find the value of k.2mks

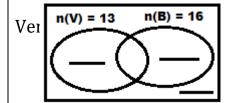


- (b) How much money does he spend on:-
  - (i) Rent 1mk (ii) School fees 1mk

(c) How much more does he spend on rent than school fees?2mks

30. In a class of 28 pupils, 13 like volleyball, 16 like basketball, x like both games and 4 like neither of the games.

$$n(\pounds) = 28$$



- (a) Represent the above information on the
- (b) Find the value of x.

2mks

(c) How many pupils like volleyball only? 1mk
(d) What is the probability of choosing a pupil who plays only one type of game? <b>1mk</b>
31. Tom was told to form a number using the Digits 2, 7, 5, 1.
(a) Write the smallest four digits' numeral. <b>1mk</b>
(b) Find the difference between the biggest and smallest numerals. <b>2mks</b>
(c) Write the smallest numeral formed in words <b>2mks</b>
32. Three traders A,B and C share the profits worth 7,200/= in the ratio 3:5:2 respectively. (a) How much money did each get? <b>3mks</b>
(b) How much money did trader A and C get altogether? 2mks
END

END