



THE PRIME EXAMINATIONS 2022

P.7 PRE - PLE TRIAL SET II

MATHEMATICS (Abridged Curriculum)

Time allowed 2 hours 30 minutes

INDEX NO:

Random No.

Personal No.



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Candidate's Name:

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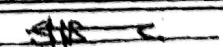
District ID:

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has **two** sections: **A** and **B** Section **A** has **20** questions and section **B** has **12** questions. The paper has **9 printed pages**.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All working must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do not fill anything in the table indicated "**For Examiners' use only**", and those boxes inside the question paper.

FOR EXAMINERS' USE ONLY

QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		


APPROVED:
Consultant

Mathematics Department (PEC)

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Kampala

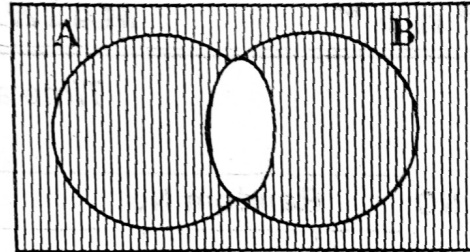
Turn Over

Section A (40 Marks)

Workout: 78×0

2

Describe the shaded part in the venn diagram below.



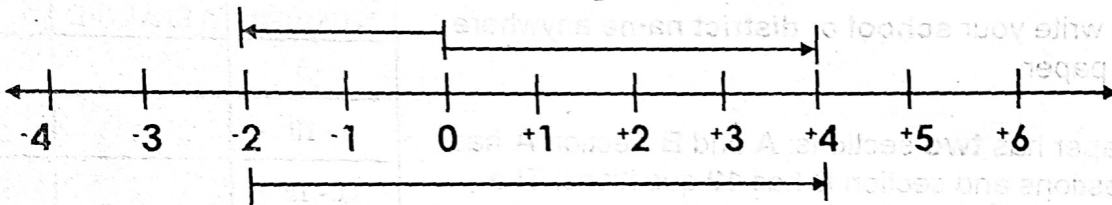
Simplify: $2k - 7k + 8k$.

4

Without division, show which of the numbers 7050 and 1203 is divisible by 6.

5

Write the mathematical statement represented on the number line below.

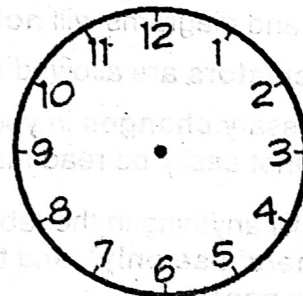


6

Work out: $0.75 \div 0.25$

7

Show "ten minutes to 6" on the clock face below.



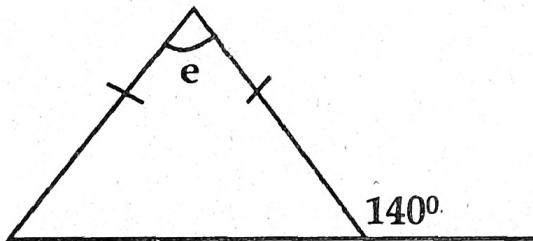
8 A mass of 12kg was re-packed using $\frac{3}{4}$ kg sachets. Find the number of sachets got.

9 Workout : $101_{\text{two}} + 11_{\text{two}}$

10 Decrease 80 by $12\frac{1}{2}\%$.

11 A dice was tossed once. What is the probability that a prime number will appear on top?

12 In the triangle below find the value of e in degrees.



13 The prime factors of 18 and 30 are given below.

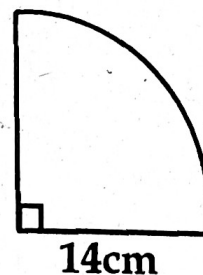
$$18 = 2 \times 3^2$$

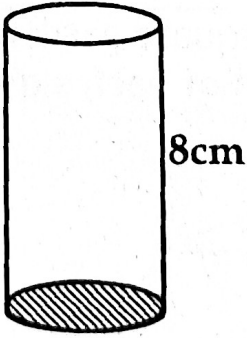
$$30 = 2 \times 3 \times 5$$

Find the GCF of 18 and 30.

14 The perimeter of a square garden is 72m. Find the length of each side of the garden.

15 Find the perimeter of the quadrant below. (use $\pi = \frac{22}{7}$)



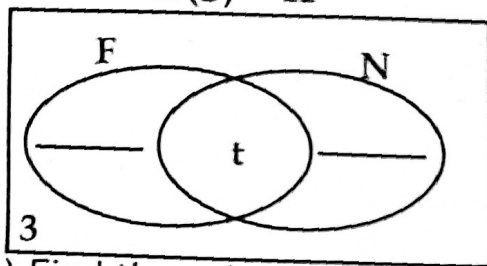
<p>16 Solve: $2 - x \leq 5$</p>	<p>17 A motorist travels 72 km in 45 mins. Find the speed of the motorist in km/hr.</p>
<p>18 Using a ruler, a sharp pencil and a pair of compasses only, construct an angle of 120°.</p>	
<p>19 The cost of a book from a certain supermarket is sh.800. Find the number of books a pupil will buy with sh.18400.</p>	<p>20 The base area of the cylinder below is 154cm^2. Calculate the radius of the cylinder. (Take $\pi = \frac{22}{7}$)</p> 

Section B (60 Marks)

- 21 In a class of 41 pupils, 30 play football (F), 13 play netball (N) t play both games while 3 do not play any of the two games.

(a) Complete the Venn diagram below.

(02 marks)



(b) Find the value of t.

(02 marks)

(c) Find the number of pupils who like one game.

(02 marks)

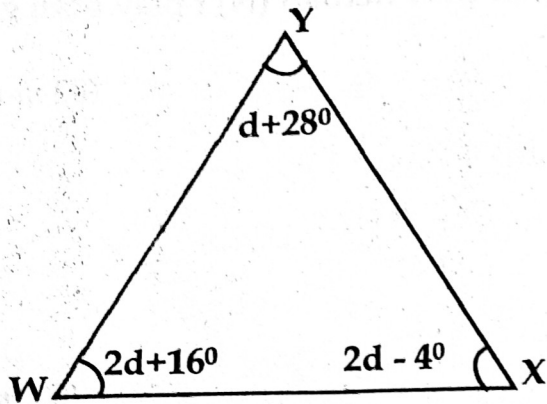
- 22 (a) Find the difference between the value of 6 and the value of 9 in the number 168497.

(03 marks)

(b) Write 852 in Roman Numerals.

(02 marks)

23 Study the triangle below and answer the questions that follow.



(a) Find the value of d .

(03 marks)

(b) Calculate the size of angle XWY.

(02 marks)

24 Change $\frac{9}{11}$ to a recurring decimal.

(02 marks)

(b) Simplify: $\frac{6.4 \times 0.12}{0.06 \times 0.16}$

(03 marks)

25 The exchange rates in a bank are as follows.

1 Us dollar (\$) = Ugsh.3600

1 British pound sterling (£) Ugsh.4800.

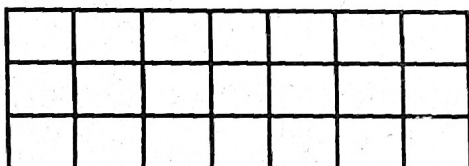
1 Kenya shilling (Ksh) = Ugsh.35

(a) Convert Ugsh. 1,470,000 to Kenyan shillings.

(02 marks)

(b) If a bicycle costs (\$)400 in America, find the equivalent cost of the bicycle in British pound sterling.
(03 marks)

26 The figure below represents a rectangular floor which is covered by square tiles. If the total area of the floor is 4725cm^2 .



(a) Find the length of the floor.

(03 marks)

(b) Calculate the perimeter of the floor.

(02 marks)

- 27 A taxi driver left town P to town Q at 11:30am driving at a speed of 64km/hr. If the driver took 3 hr 45 min to reach town Q. (03 marks)
- (a) At what time did the driver reach town Q?
- (b) Find the distance between town P and town Q. (02 marks)
- 28 Ali borrowed sh.360,000 from a Sacco at a simple interest rate of 30% p.a. (03marks)
- (a) Find the total interest Ali paid after $3\frac{1}{2}$ years.
- (b) Calculate the total amount of money Ali paid to the Sacco after $3\frac{1}{2}$ years. (02marks)
- 29 Given that $x = 5p$ and $p = 6$. (03marks)
- (a) Find the value of $5p + 5x$.

(02marks)

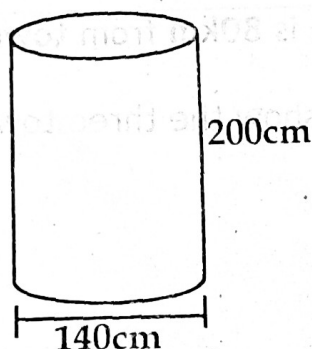
(b) Show the solution set for $-3 \leq x < 5$ on a number line.

30

Find in litres the amount of water that can be contained in the tank below.

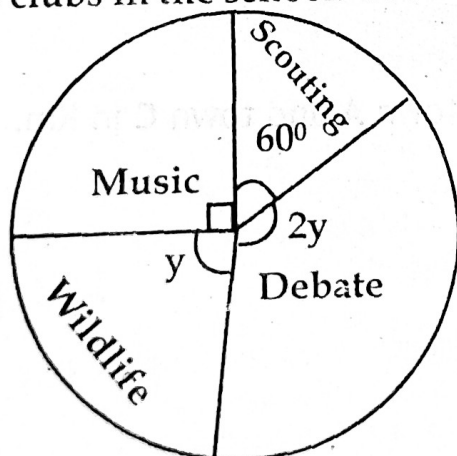
(04marks)

($\pi = \frac{22}{7}$)



31

The pie-chart below shows how pupils of Namungodi P/S are distributed in various clubs in the school. Use it to answer the questions that follow.



(a) If there are 210 pupils in the wildlife club, find the number of pupils in the school. (03marks)

(b) What percentage of the school population is in the music club? (02marks)

32 Town A is 110km East of town B and town C is 80km from town B on a bearing of 210° .

(a) Using a scale of 1cm to represent 20km, show the three towns on an accurate diagram. (04marks)

(b) Find the shortest distance between town A and town C in Km. (01mark)



Revision Tip

Always write correct units for questions which require/ have units.