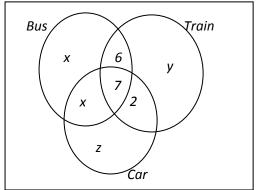
TOPFLIGHT COLLEGE

MATHEMATICS WEEKLY TEST

CLASS: SS ONE

NAM	ME OF C	ANDIDATE:
1.	Simpli	fy: $\frac{1\frac{1}{4} + \frac{7}{9}}{1\frac{4}{9} - 2\frac{2}{3} \times \frac{9}{64}}$
2.		ber of tourists were interviewed on their choice of means of travel. Two-thirds said they
		ed by road, $\frac{13}{30}$ by air and $\frac{4}{15}$ by both air and road. If 20 tourists did not travel by either air or
	road,	D (11 : 6 (2 X 1)
	i.	Represent the information on a Venn diagram;
	ii.	How many tourists
	a.	Were interviewed
	b.	Travelled by air only?
	•	

en that $x^2 + bx = 10^{-10}$ plify: $\frac{1}{3}$ of 27^{2x-5}		d as (x + 2)	(x + c). Find the	he values of <i>c</i>	and b.
		d as (x + 2)((x + c). Find the	he values of <i>c</i>	and b .
		d as (x + 2)	(x + c). Find the	he values of <i>c</i>	and b.
		d as (x + 2)	(x + c). Find the	he values of <i>c</i>	and b.
		d as (x + 2)0	(x + c). Find the	he values of <i>c</i>	and b.
plify: $\frac{1}{3}$ of 27^{2x-5}					
plify: ½ of 27 ^{2x-5}				•••••	• • • • • • • • • • • • • • • • • • • •
plify: $\frac{1}{3}$ of 27^{2x-5}				•••••	
plify: $\frac{1}{3}$ of 27^{2x-5}			•••••		
pmy. 3 of 27	- 01 find x				
	— 61, IIIIQ x.				
class of 40 stude	nts, 30 take Ag	griculture ar	nd 20 take Phy	sics. If 8 stud	lents take neither
iculture nor Phys	sics, find the n	umber of st	udents who ta	ke Agricultu	re but not Physics
	•••••				
					class of 40 students, 30 take Agriculture and 20 take Physics. If 8 studiculture nor Physics, find the number of students who take Agriculture



	bus, train and car. The number x who travelled by bus only was equal to the number who travelled by bus and car only. Given that 35 people used buses and 25 people used train, find				
		e value of x			
b.	Th	e number who travelled by train only			
	••••				
C.	Th	e number who travelled by at least two methods of transport.			
	•••••				
	••••				
d.		ven also that 85 people were questioned altogether, calculate e number who travelled by car only			
•••••	•••••				
In		ass of 60 students, 28 like oranges, 25 like bananas. 6 like both oranges and bananas. How many like neither oranges nor bananas?			
	b.	Draw a Venn diagram showing the numerical data			

7.

Of those questioned, 6 said that they travelled by bus and train, 2 by train and car only and 7 by

ven	that \mathcal{E} = {1, 2, 3 , 10}, list the member of the following subsets of $\boldsymbol{\mathcal{E}}$
a.	$\{x: x \ge -2 \le 3\}$
b.	$\{x : x \text{ is a multiple of } 5 < 20\}$
C	${x: 3x - 3 = 3}$
C.	[X . 3X = 0 = 3]
d.	${x:3 < x < 8}$
e.	{x : x is a factor of 360}
	$\{x: (x-2)(x-4)=0\}$

TOPFLIGHT COLLEGE

MATHEMATICS WEEKLY CHALLENGE

CLASS: SS THREE

NAN	IE OF CANDIDATE:
1.	Simplify: $\frac{1\frac{1}{4} + \frac{7}{9}}{1\frac{4}{9} - 2\frac{2}{3} \times \frac{9}{64}}$
2.	Sonny is twice as old as Wale. Four years ago he four times as old as Wale. When will the sum of their ages be 66?
3.	In the diagram below, \overline{TU} is a tangent to the circle. R \widehat{V} U = 100° and \angle URS = 36°. Calculate the
	value of angle STU. V 100° T

In the diagram below, |PQ| = 6cm, |QR| = 13cm, |RS| = 5cm and \angle RSQ is a right angle. Calculate, correct to one decimal place, |PS| 6cm 13cm 5cm 5. A number of tourists were interviewed on their choice of means of travel. Two-thirds said they travelled by road, $\frac{13}{30}$ by air and $\frac{4}{15}$ by both air and road. If 20 tourists did not travel by either air or road, i. Represent the information on a Venn diagram; How many tourists ii. Were interviewed

Travelled by air only?
•

6.

Class Interval	Frequency
60 – 64	2
65-69	3
70-74	6
75–79	11
80-84	8
85–89	7
90-94	2
95–99	1

The table shows the distribution of marks scored by students in an examination. Calculate, correct, to 2 decimal places, the

- a. Mean
- b. Standard deviation of the distribution