121/1 Mathematics Paper 1 FORM 1 2024 END TERM 1 – Time: 2 ½ hours

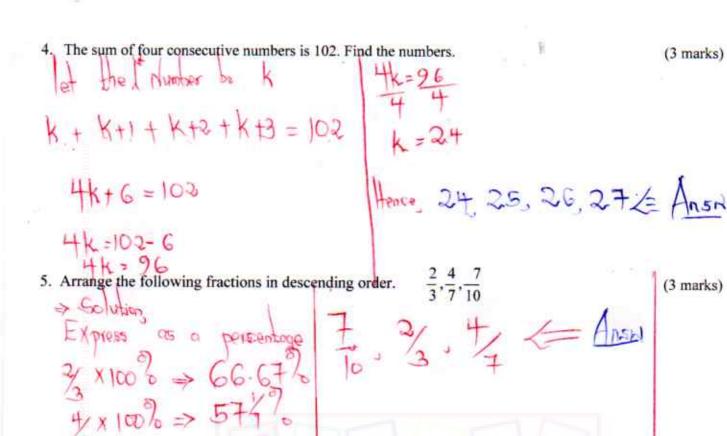
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SECTION I (50 MARKS)

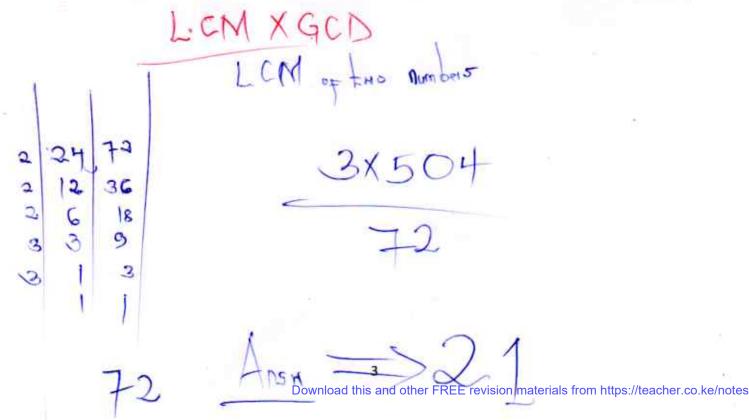
Answer all the questions in this section.

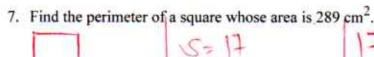
1.	Write the following numbers in words	(3 marks)
	i. 900079	
	Nine Hundred Thousand and Geventy nine.	
	ii. 17006952	NI A
	Seventeen million, and Six thousand nine hundred and	FIFTY TWO
		2 11
	Three billion, Eventy thousand seven hundred and third	y Nine.
2.		
	Find the sum of all prime numbers between 0 and 50. 2 +3 +5+7+11+13+17+19+23+29+31+37+41+43+1	-
	328	
	i Tascharča ka	
3.	State the place values of the following digits in 52368700941 i.	(4 marks)
	6: ens of Milions ii. 5:	
	ens of billions	ď.
	111	
	iii. 2: Opes of billions	
	iv. 9: tundseds.	

3.



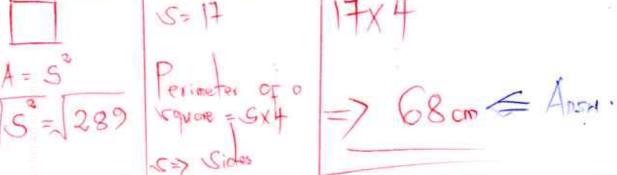
6. The GCD and LCM of three numbers are 3 and 504 respectively. If two of the numbers are 24 and 72 respectively, find the least possible value of the third number. (3 marks)





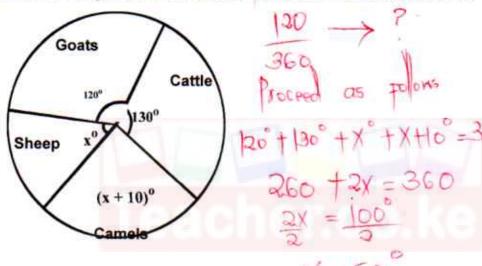
(3 marks)

(4 marks)



A farmer has four types of animals on his farm. The pie chart below represents the number of animals on the

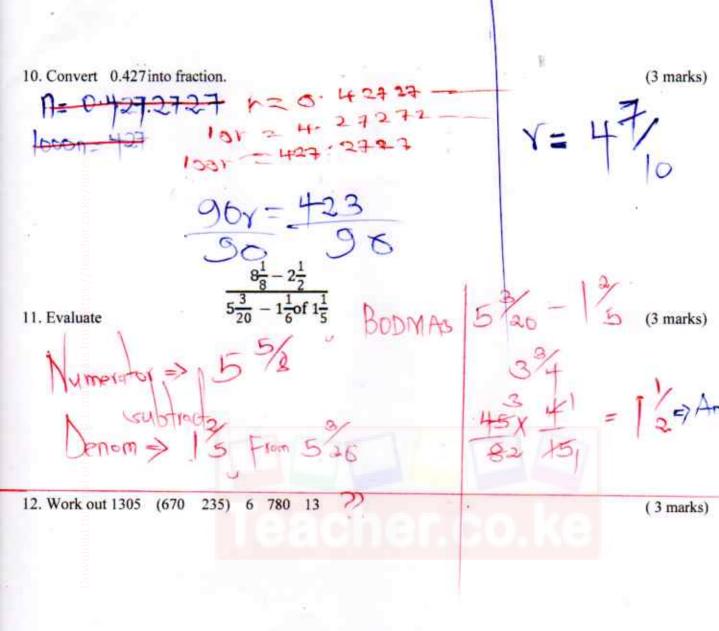
farm. If the number of goats were 30, calculate the number of camels on the farm.



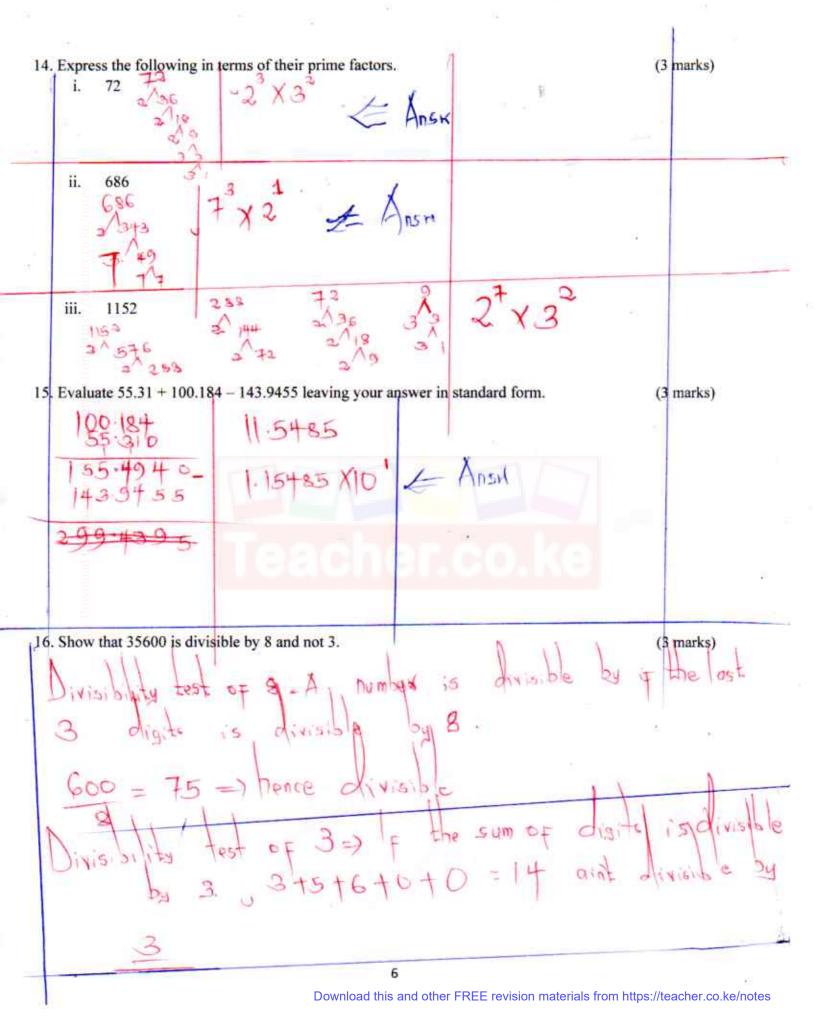
(3 marks)

9. Factorise
$$4pqr^2 + 6p^2qr^2 - 2pq^2r^2$$

289×2 (2+31 = 9.)



1	3. Is 43516902 divisible by 11? Show your working.	(3 marks)
í	get the sum of a tringtime digits. 4+5+6+0-15	(*)
	3+1+9+2 = 15	
	15-15=0, Hence divisible by	



nswer any FIVE questions in this section.

SECTION II (50 MARKS)

17. Use squares and square root tables to solve the following

(10 marks)

(i)
$$4.56^2 - \sqrt{30.4}$$

(ii) $\sqrt{0.846} + \sqrt{0.095}$

(b) A fruit dealer blends the fruit juice in a common container to the brim before choosing the quantities in which to distribute them. She can pack them in either 20 litres, 24 litres or 36 litres can before selling them. If she chooses 20 litres cans she remains with 13 litres while when she uses 24 litres 17 litres remain in a container and 29 litres remain when distributed in 36 litres cans. Determine the least capacity of her container in litres.
(5 marks)

LCM 2 20,2436

2 10 12 18

2 10 63

3 55

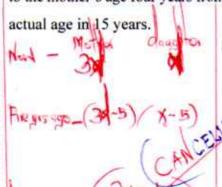
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= 2x2x 3x3x5

Soluti	on Mother	daugh
NoH-	3.5x	X
		SERVICE DESCRIPTION OF THE PARTY OF THE

19. (a) A mother is three and a half times as old as her daughter now. Five years ago, the sum of their ages was equal

to the mother's age four years from now. Taking the daughter's present age as d years, find the mother's



(b) Annette has some money in two denominations only. Fifty shillings notes and twenty shilling coins. She has three times as many fifty shilling notes as twenty shilling coins. If altogether she has sh. 3,400, find the number

of fifty shilling notes and 20 shilling coin.

$$1500 + 200 = 3400$$
 $1700 = 3400$
 $170 = 170$

(c) The mean of five numbers is 20. The mean of the first three numbers is 16. The fifth number is greater than

the fourth by 8. Find the fifth number.

$$40 + 2m = 100$$

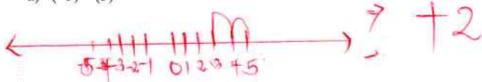
$$\frac{2m = 66}{2}$$

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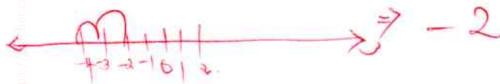


(10 marks)

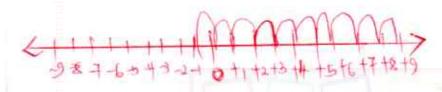
a) (+5)-(3)



b) (-4) + (2)



c) (+2) + (+5) + (-8)

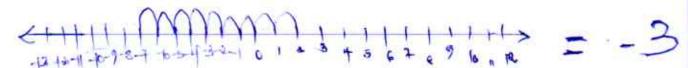




d) (-3) + (+6)- (-2)



e) (+2) + (-6) - (+3) - (-4)



21. (a) The area of a triangle whose height is equal to the length of its base is 40.25 cm². Calculate the length of the base. (3 marks)

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(b) Without using a calculator and tables, evaluate

(4 marks)

- (c) A vegetable vendor had 1348 cabbages. He sold 750 on the first day and 240 on the second day. He added 466 to the remaining stock on the third day.

 (3 marks)
 - (i) How many cabbages did he have at the end?

(ii) If he sold the cabbages at a cost of shs 15, how much money did he get?

824X15

=> sh 12360 < Amon