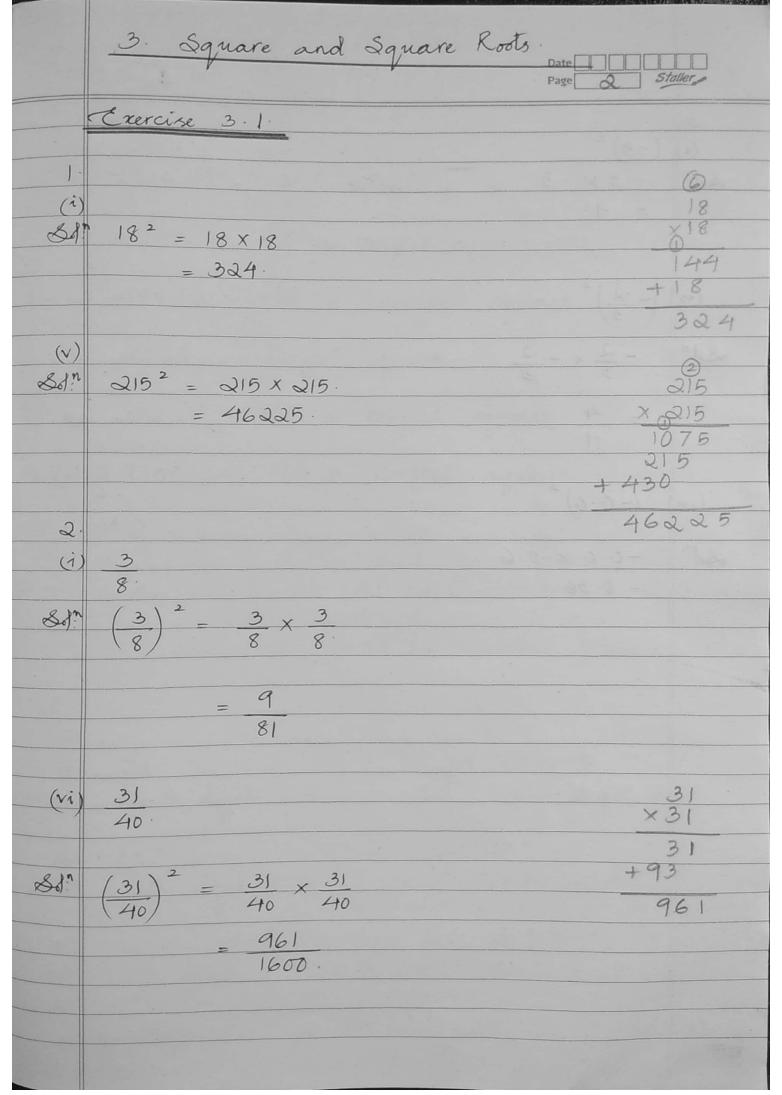
		CLASS: 8. SUB: MATHEMATICS. Date Date Page 1 Staller
	-	IND TERM SYLLABUS.
	3.	Squares and Square Roots. (12 m)
	4.	Cubes and Cube Roots. (101n)
	7.	Factorisation (13 m)
	10.	Simple and Compound Interest. (15 m)
	13.	Representing Solids on Paper (5m).
3	16	Surface Area and Volume. (15 m).
	19	Probability. (10 m).



	Date Page 3	Staller
3.		
(1)	$(-3)^2$	
88:n	-3×-3	
	= 9.	
	/) 2	
(iv)	$\left(-\frac{2}{3}\right)^2$	
0 10		
&d!"	$-\frac{2}{3}\times-\frac{2}{3}$	-1 -21-2
	4	
	= 4	
		6
(vii)	(-0.6)2	
	0.3	36
Sd:n	-0.6 x-0.6	
	= 0.36.	
		1 Tilbair
	OF STREET	
	,	

	Page 5 Staller
3.	7,2-
20:1	72^{2} . No. of digits in the square = $2n-1$ or $2n$. = $2\times2-1$ or 2×2 . = $4-1$ or 4 .
-	$=2\times2-1 \text{ or } 2\times2.$
	= 4-1 or 4
	= 3 or 4 digits
	NOTE: Here $n = no \cdot of digit$ in the Number
	* Refer text pg. 40. PROPERTY 5.
	THE PARTY OF THE P
(iii)	3462
Som	346^{2} No. of digits in the square = $2n-1$ or $2n$. $= 2\times 3-1$ or 2×3 .
	$= 2 \times 3 - 1 \text{ or } 2 \times 3.$
	= 6-1 or 6.
	= 5 or 6 digits
(vi)	92.
Bd"	No. of digits in the square = $2n-1$ or $2n$. = $2x1-1$ or $2x1$
	= 2x1-1 or 2x1
- 3	= 2-1 or 2
	= 1 or 2 digits

	Date Staller
4.	
(i)	The last of the last will be a last to the last to
So!	here, n = 8.
	1+3+5+7+9+11+13+15=82
	= 64.
(iii)	
8d."	here, $M = 4$.
	$-1+3+5+7=4^2$
	16 moderne
	* Refer PROPERTY 6 on Pg. 40 in Text.
. 0 4-	sister and and the decided (act and the least of the
5	Note that the state of the stat
(i)	
∞88.	$7^2 = 1 + 3 + 5 + 7 + 9 + 11 + 13$
(ii)	$11^2 = 1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19$
	+ 21.
	Land the same of t
6	The second of th
(i)	
&A!	The no. of numbers between 4° and 5° = 2n
	$= 2 \times 4$
	= 8
	plate: Han in Top D 12
	Note: Here, n will be the lower number.
	* Refer tent pg- 40 PROPERTY 7.

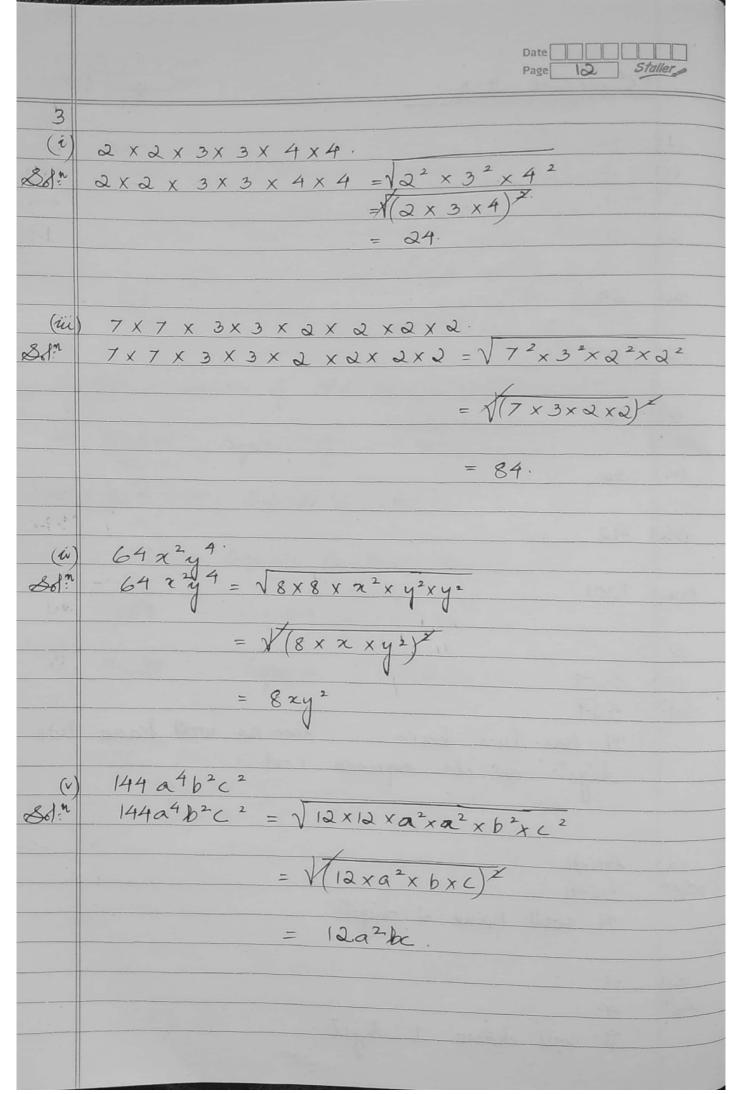
	Date Page 7 Staller
(iv)	
San	The no. of numbers between 30^2 and $31^2 = 2n$ $= 2 \times 30$
	= 60.
7	
81°	The 5th and 6th terms of triangular numbers are 15 and 21.
	When we add these numbers we get $36 \cdot (ie., 15 + 21 = 36)$ which is the square of 6.
	* Refer PROPERTY 8 in tent pg. 40 † 41.
8· (i)	
Sof.n	here, $n = 8$. $n + 1 = 9$
	the square no. when we add 8^{th} and 9^{th} triangular numbers = $(n+1)^2$. $= 9^2$ $= 9 \times 9$
	= 81.

	Date Page 8 Staller
9.	
(i)	
88.m	If 42 + 52 = 62 then they form a
	If 42 + 52 = 62 then they form a Pythagorean Triplet
	here,
	$4^2 + 5^2 = 16 + 25$
	= 41 30 2/
	$6^2 = 36$
	$4^{2}+5^{2} \neq 6^{2}$, 4,5,6 do not form
	a pythagorean Triplet
(5.5)	A. + * (i) a. T. * wh
(n') &d?	If 62+82 = 102, then they form a Pythagorean triplet:
	here,
	$6^2 + 8^2 = 36 + 64$
	= 100.
	$10^2 = 100$.
	$6^2 + 8^2 = 10^2$; 6, 8, 10 form a
	?: 62 + 82 = 102; 6,8,10 form a Pythagorean triplet.
	V V
	T Rober PRAPERTY 2 2 41
	* Refer PROPERTY 9 on pg. 41

	Date Page 9 Staller
10-	
(i)	10.
201 n	To form a Pythagorean triplet, we need $(2m)$, (m^2-1) and (m^2+1) .
	here, $2m = 10$.
	$m = 10^{5}$
	= 5.
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	$10^{2} - 1 = 5^{2} - 1$
	= 25 - 1
	= 24.
	The second of th
	and $m^2 + 1 = 5^2 + 1$
	= 25 + 1
	= 26.
	- P2N (0)
	10, 24, 26 form a Pythagorean triplet.
11.	David de la
(i)	45.
807	$45^{\circ} = 2025^{\circ}$ $45^{\circ} = 25^{\circ}$
	men, 4 x 0 = 00
	7 000
	on the left side
	する。
	* NOTE: Refer text pg. 42 PROPERTY 13.

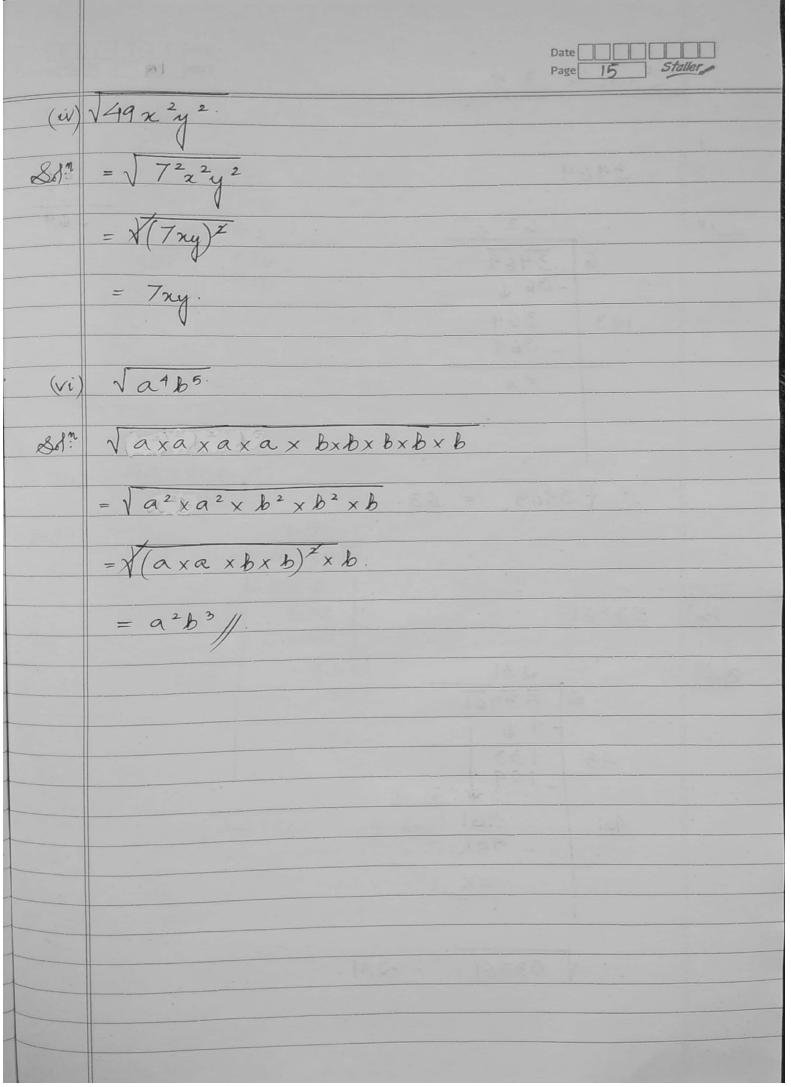
	Date Page 10 Staller
(iii) So!n	$95^2 = 9025$. here, one place
	we have 5.
	$-1.5 \times 5 = 25$
	then 9 x 10 = 90, w
	place 90 on the
	left of 25
10	
10	
(i)	961 - Square of odd no.
(ii)	313600 - Square of even no.
(iii)	529 - Square of odd no.
	6724 - Square of even no.
(v)	1089 - Square of odd no.
(V i)	4225 - Square of odd no.
	NOTE: PROPERTY 4 on pg. 40 states that squares of even no.'s are even & squares of odd no.'s are odd.
	squares of even nois are ones &
	squares of odd no.'s are odd.
	YIS TON A STATE OF THE STATE OF

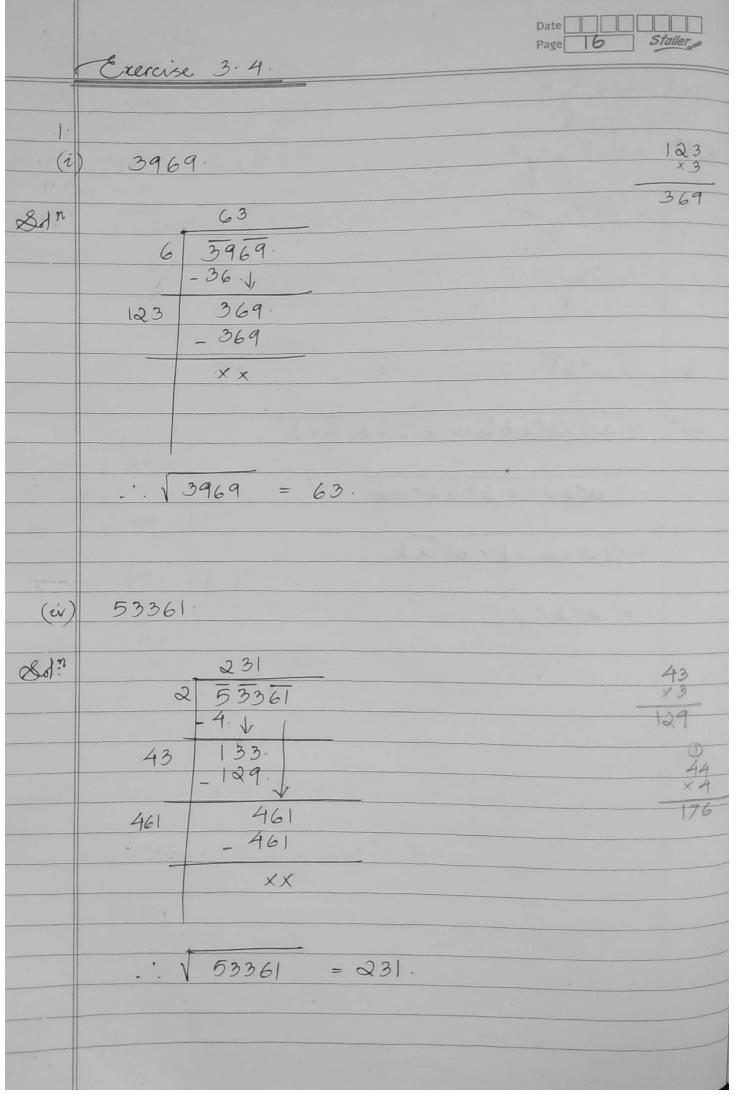
	Exercise 3.3.	Staller,
		- 8
1	TO THE RESIDENCE OF THE	REAL PROPERTY.
(i)	8.	198
	THE RESERVE TO THE PARTY OF THE	
(ii)	11	
		1
(iii)	≥5.	
	LIFE TO THE REST OF THE REST O	
(iv)	16	
(v)	18	1
(vi)	30.	
(Vii)) 42	
	1001	141
(viii)	1001	L. L
.7		
2.	5.19.	
(i) &d?	529.	
(XXI):	529 The has two bars this no will be us	1
	lista in the course of	600
	Il has two bars, this no will have digits in its square root	ta i ii
	THE PART OF A STAN GARAGE A STAN A ST	THE DEC.
	5041	
(ii) Ød!n	5041	
(00).	It will have 2 digits	
(iii)	4.	
80!n		
(04)	It will have I digit	

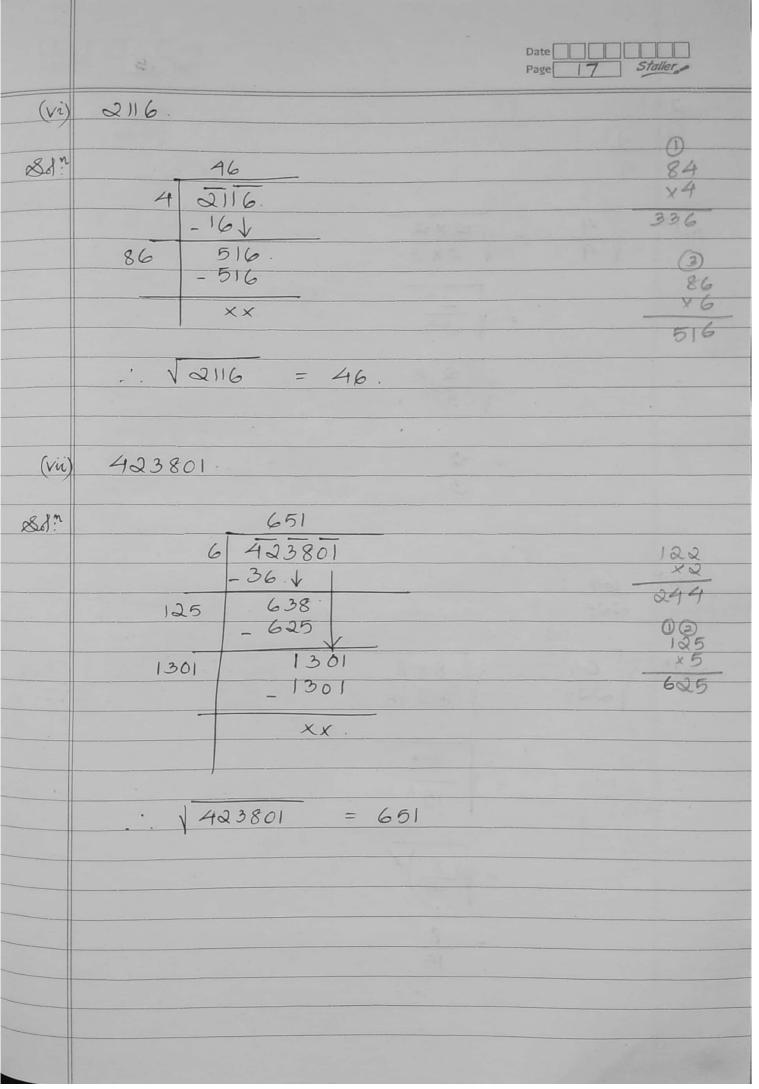


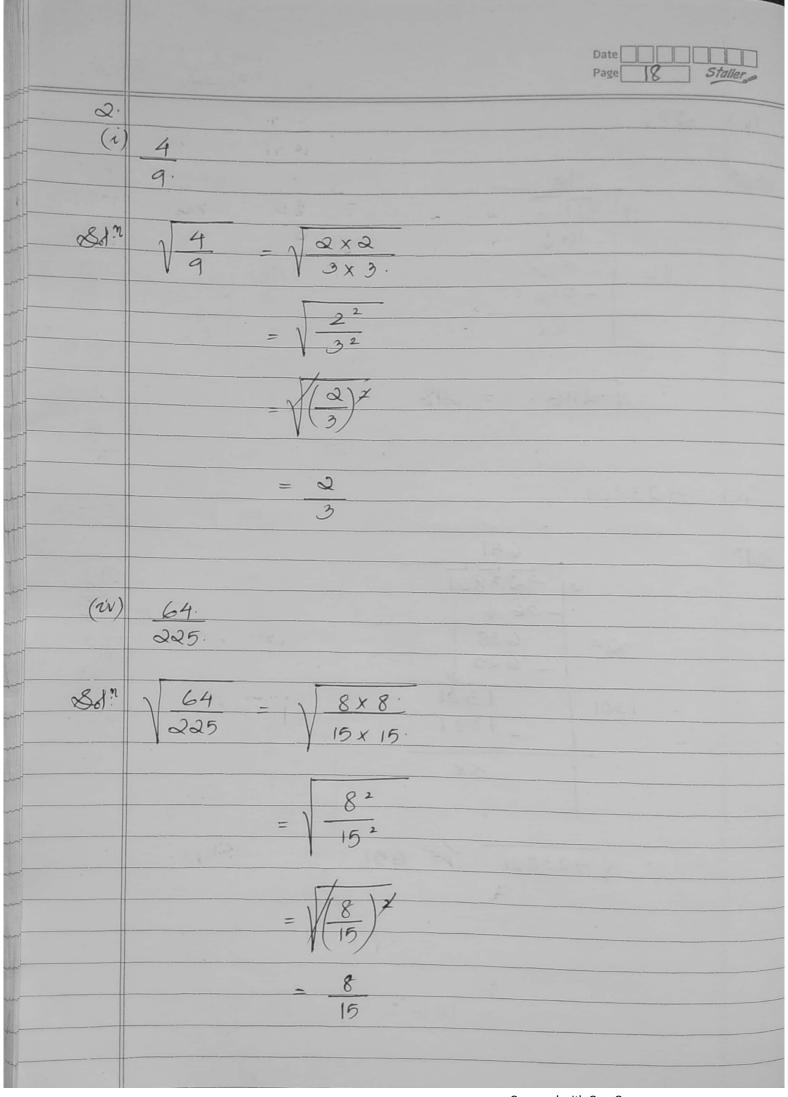
	Date Date S	
1	Page 3 S	faller
4.		32 - 3
(i)	3969.	3969.
88	2212	-
06)		-
	3	
	$3969 = \sqrt{3^2 \times 3^2 \times 7^2}$	1
		7.
	$=\sqrt{(3\times3\times7)^2}$	
	= 63.	
	F10/	,
(in)	5184	
2 IM	5104	
Sola	$5184 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3 \times$	
		1296.
	$1. \sqrt{5184} = \sqrt{2} \times 2 \times 2 \times 3 \times 3^{-1}$	648
	$= \sqrt{(2 \times 2 \times 2 \times 3 \times 3)^2}$	324.
	= 1(2/2/3/3/3)	162
	= 72.	81
	3	27.
	3	9
		3.
(vii)	5625	Takita To
(va)		5625
811		1125.
201.	5	225.
	$\sqrt{5625} = \sqrt{5^2 \times 5^2 \times 3^2}$	45.
	3	9.
	$= \times (5 \times 5 \times 3)^{\times}$	3
	= 75.	

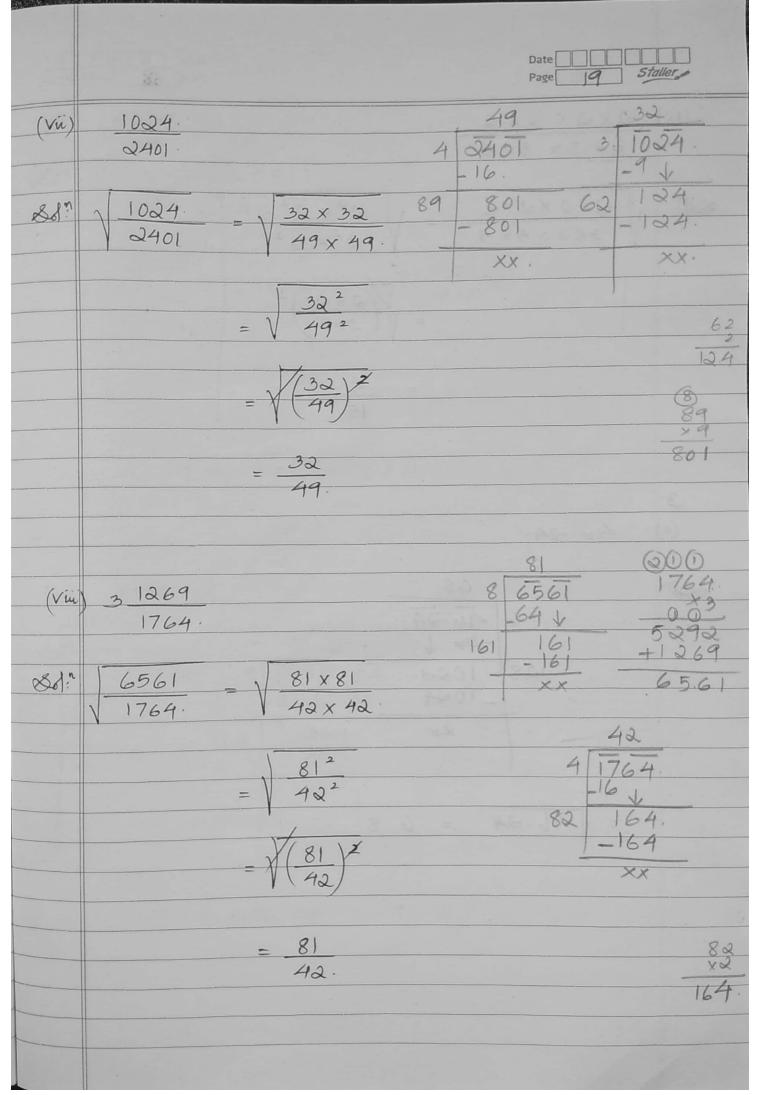
	Date Page	14	Staller
(x)	108900		
&d!	108900 = 2 x 2 x 5 x 5 x 3 x 3 x 11 x 11	2	54450
	$\sqrt{108900} = \sqrt{2^2 \times 5^2 \times 3^2 \times 11^2}$	5	
	$= \sqrt{(2 \times 5 \times 3 \times 11)^{2}}$	3	363
		11	121
	= 330.		
5			
(i)	THE CONTRACTOR STATES		141-2
801.	A RESERVE WAS A SERVE WAS A SE		
~~	$= \sqrt{(a \times b^2)^2}$		
	$=ab^2$		
(iii)	$\sqrt{2^8 \times 3^4}$		
	√ 2×2×2×2×2×2×2 × 3×3×3 ×3		
	$= \sqrt{2^2 \times 2^2 \times 2^2 \times 2^2 \times 3^2 \times 3^2}$		
-	= X(2×2×2×3×3)2		
	= 144.		

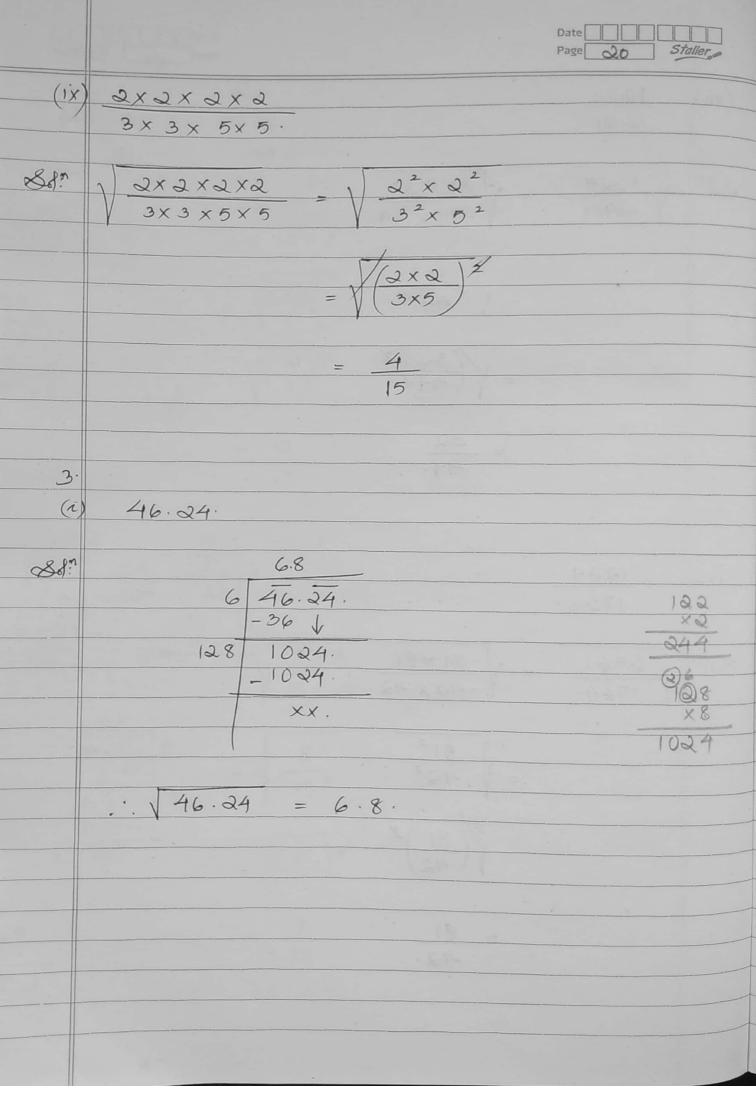


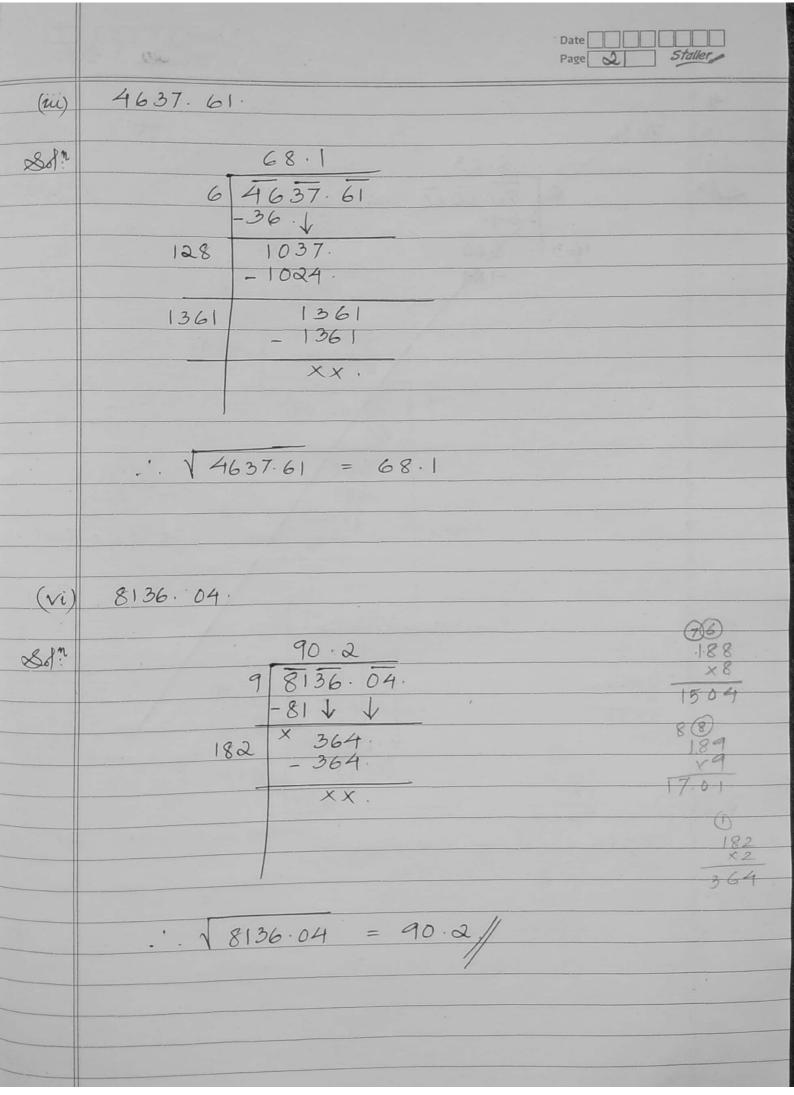


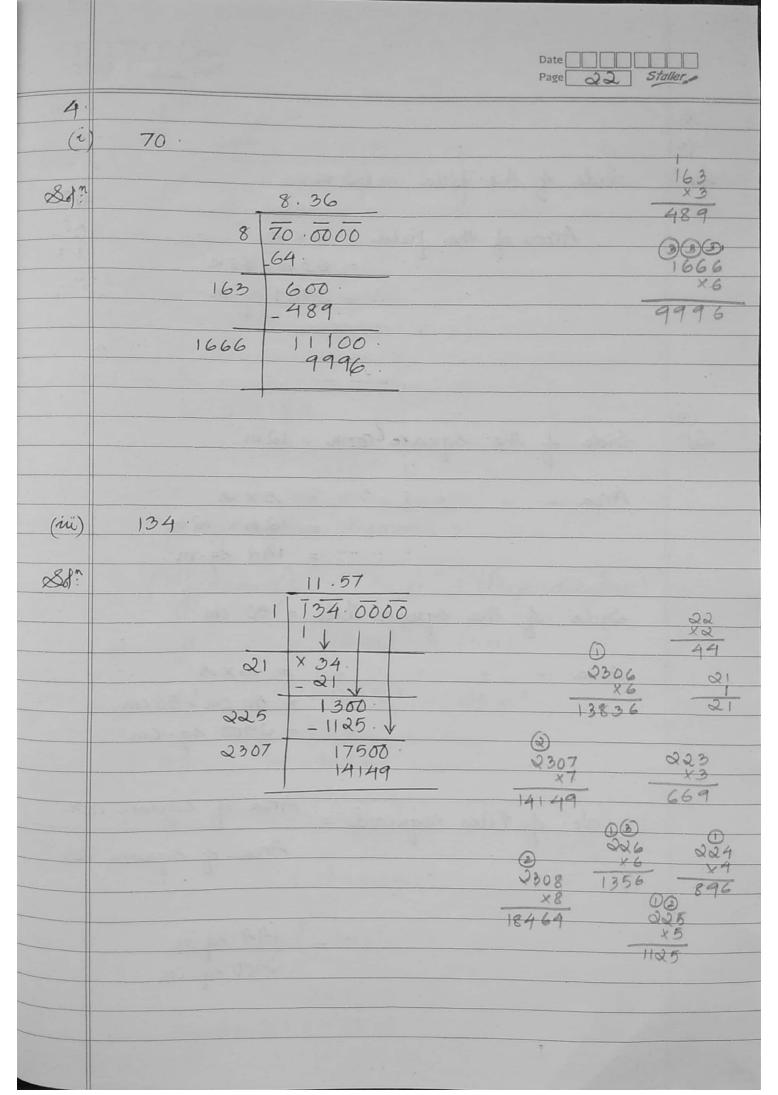




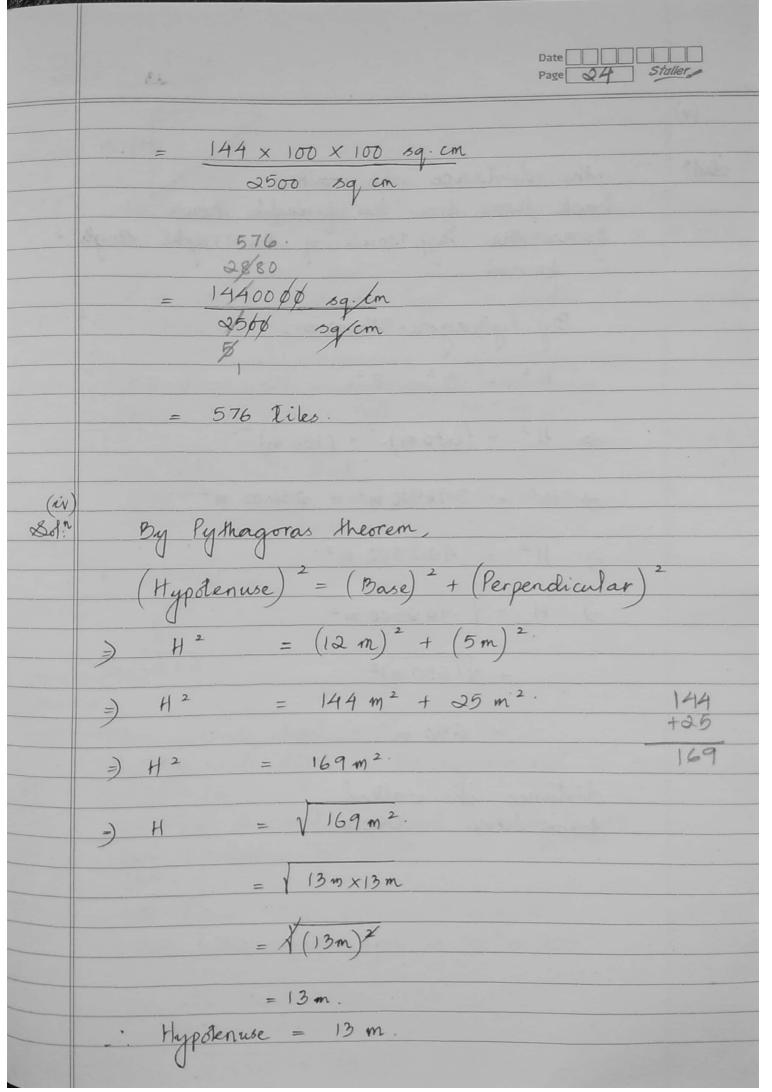


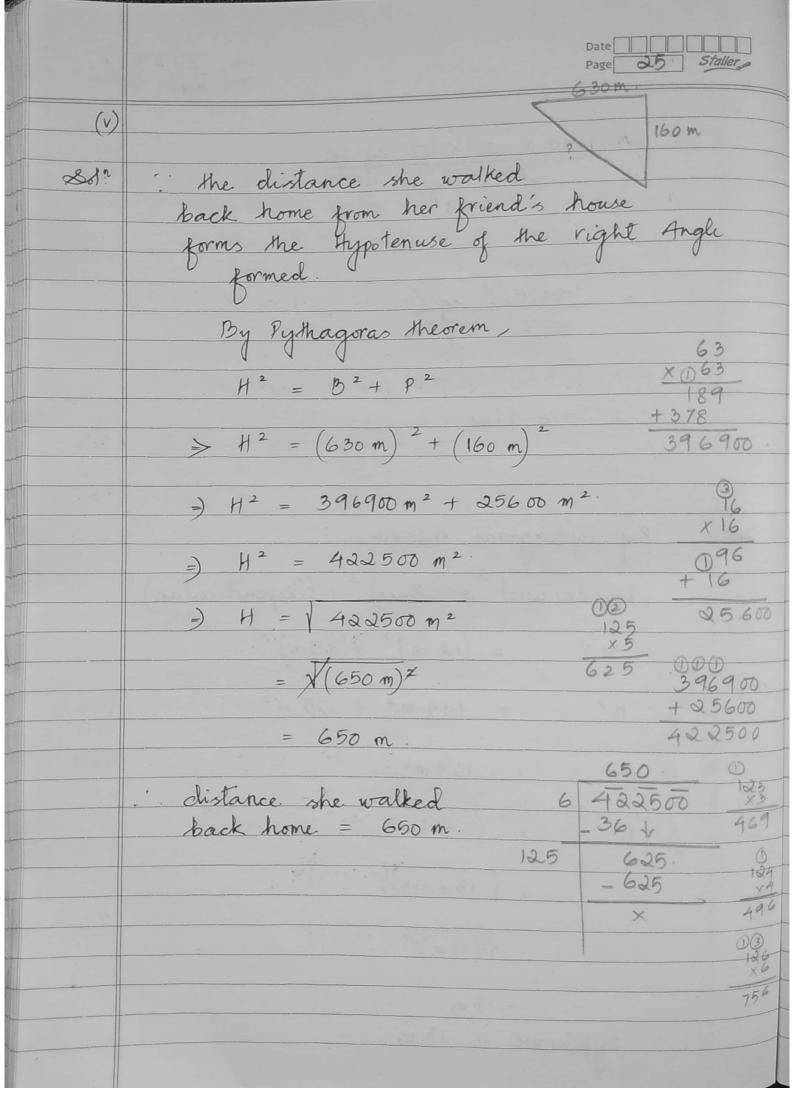






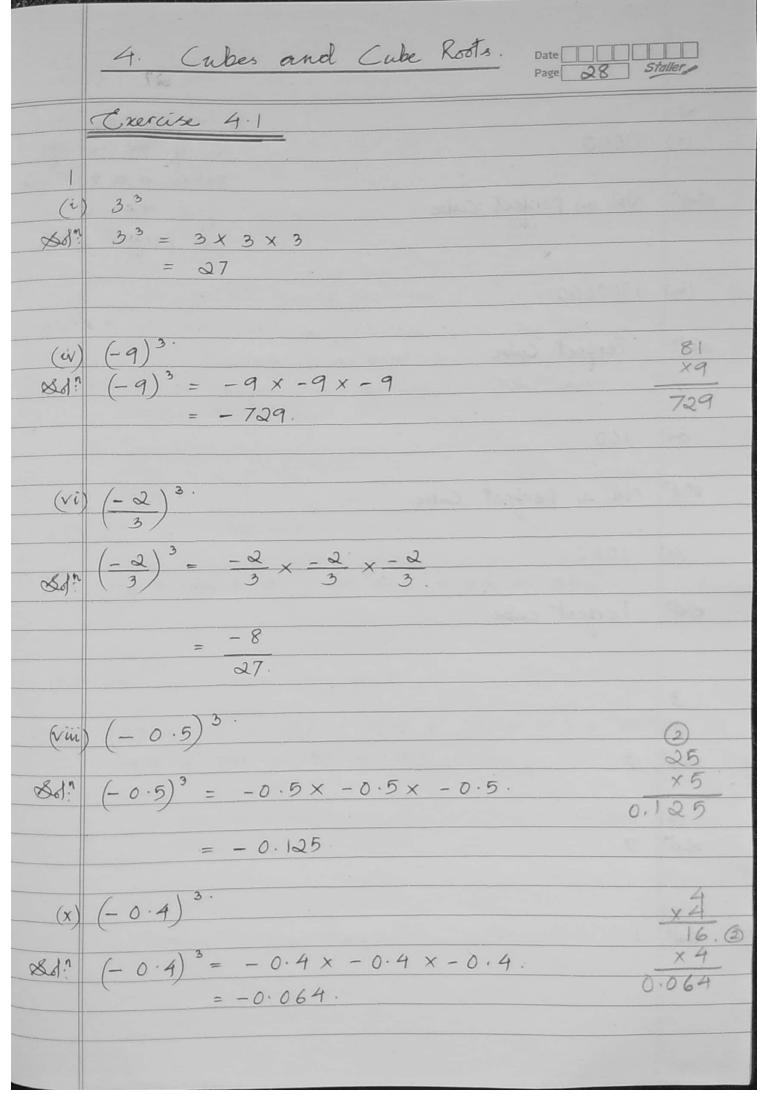
	Page 3 Staller
5.	
(i)	
&d:n	Side of the field = 63 m.
	63
	· Area of the field = 5× 8: 363
	$= 63 \text{ m} \times 63 \text{ m}$ 189
-	= 3969 sq.m. + 378
	3969
(n)	
Sd."	Side of the square room = 12 m.
	Area " " " = 8 x 8
	$= 12 m \times 12 m$
	= 144 sq.m.
	Side of the square lile = 50 cm.
	Area " " - 5 x 8
	= 50 cm x 50 cm
The state of	= 2500 sq. cm.
	No of tiles required = Area of square room
	Area of square tile
	144
	= 144 sq.m 2500 sq.cm
	200 sq. cm





	Date Page Q 6 Staller
6	
(i)	2916.
	The second of th
88:m	The units digit of 2916 is 6
	The units digit of 2916 is 6 So, the units digit of the square root is 4 or 6.
	Now we discard the last two digits 16.
	Now, we discard the last two digits 16. remaining no = 29.
	we know 29 is between 52 and 62
	We know 29 is between 5 ² and 6 ² Then, the square root is 54 ² or 64 ²
4 1 2 2	DESCRIPTION OF STATE
	we also know that, (29). $55^2 = 3025$ and 2916 is smaller $6^2 = 36$.
	$55^2 = 3025$ and 2916 is smaller $6^2 = 36$.
	than 3025
	-'. √ 2916 = 54.
(iii)	9025.
(m)	1000
881.7	here. Writs digit = 5
307.	here, vints digit = 5 So the units digit of the square root is 5.
-	Now we discard the last Two digits 25.
	Now, we discard the last two digits 25. remaining no = 90.
	we know 90 is between 9° and 10° 9°=81
7-11	we know 90 is between 9^2 and 10^2 $9^2 = 81$ then, the square root is 95^2 or 105^2 . (90)
	$10^2 = 100$
	we also know that
	952 = 9025
	$\sqrt{9025} = 95$

	Page 27 Staller
(vi)	4225.
881.7	here, vrits digit is 5. So the vrits digit of the square root is 5.
	So the units digit of me square
	Now, we discard the last two digits 25. remaining no = 42.
	remaining no = 42.
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
TA	we know 42 is between 62 and 72. (42) then, the square root is 652 or 752. 72=49
	then, the square root of
	we also know that
	we also know that, 652 = 4225
	·· \ 4225 = 65.
	. 186 - 1856
-	
12 10	a li les mane allera palate dine il in i
143	



	Page 29 Staller
2.	X For multiples of 10, if the no. of geroes is a multiple Not a perfect cube A gerfect cube a perfect cube.
LIVE TO THE REAL PROPERTY.	10000 10, if the no. if
- 10	zeroes is a multiple
∞61:"	Not a perject cube & 3 then it is
	a perfect cube.
(ii)	1000000
881	Perfect Cube.
-	
(iii)	100
28d n	Not a perfect cube
(iv)	1000
&d:"	Part to 1
	Perfect cube.
1	
3.	
(i)	
88!	3
	The second secon
(ii) &d?	7.
(iii)	
81."	
	The state of the s

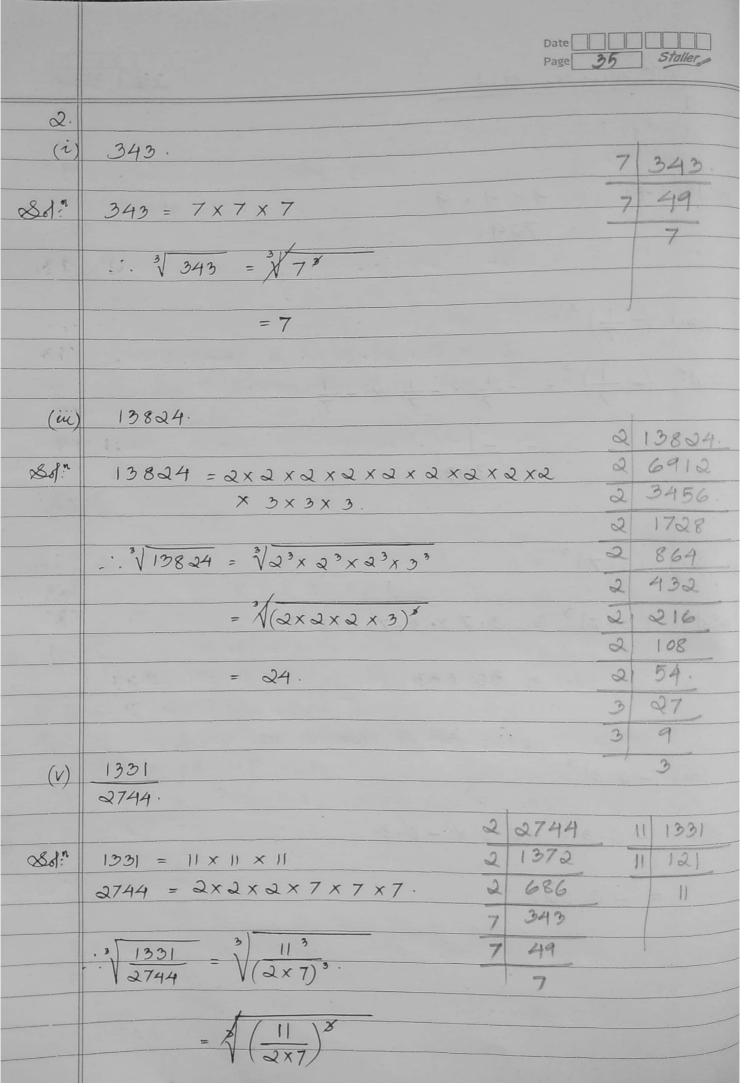
	Date Date Page 30 Staller
(iv)	
80"	0
(v)	A - A CYCAR OF EXCESS OF LAND Y BY B - BESSEE FIRM
80!	4.
	LICENSE NEW YORK OF THE RESERVE OF T
(vi)	
81:	5
	the Bull of the last of the last of
	NOTE: For 8.3 refer PROPERTIES OF CUBES in the tent on Pg. 53.
	lent on Pg. 53.
4.	
(i)	73.
	THE THE TANK THE RESERVE OF LAKE REPORTED THE RESERVE OF THE PROPERTY OF THE P
&d:	43 + 45 + 47 + 49 + 51 + 53 + 55.
	LETTER TO THE TRANSPARENCE AND A STREET
(úi)	123.
	125 1 127 1 120 1 1/21 1 1/22 1 1/27
Sol:	133 + 135 + 137 + 139 + 141 + 143 + 147 +
	149 + 151 + 153 + 155.
	FILL THORS SERENCE SERVICES SECTIONS
	TELEPHONE STATE OF THE STATE OF
	The transfer of the second sec

	Date		Staller
	Exercise 4.2.		Staller
1.		1	
(i)		TO AND DESCRIPTION	23328.
		2	11664
88ª	23328 = 2 x 2 x 2 x 2 x 2 x 3 x 3 x 3 x 3 x 3 x	2	5832
		2	2916.
	$= 2^3 \times 2^2 \times 3^3 \times 3^3.$	2	1458
		3	729:
	" all the prime factors are not	3	243
	in triples (a factor & is left out),	3	81
	in triples (a factor & is left out), thus 23328 is not a perfect	3	027
	Cube.	.3	9
			3
(iii)			
			-
8d!"	52488 = 2 x 2 x 2 x 2 x 7 x 7 x 67.		
	T - 15 1 47 T + 49 T 51 T 55 T 56 T	2	52488
	$= 2^3 \times 2 \times 7^2 \times 67.$	2	26244.
		2	13122
	. 52488 is not a perfect cube.	2	6566
		7	3283
+	CHI 4 ERI 4 1141 4 184 4 141 4 145 4 147	7	469
(iv)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		67
&d."	74088 = 2 x 2 x 2 x 3 x 3 x 3 x 7 x 7 x 7.	2	74088
		2	4
	$= 2^3 \times 3^3 \times 7^3.$	2	18522
		3	9261
	74088 is a perfect cube.	3	3087
		3	1029
		7	343
-		7	49

		Date	Challes .
	IS .	Page 32	Staller
(vi)			119
			5 15625
88?	$15625 = 5 \times 5 \times 5 \times 5 \times 5 \times 5.$	-	5 3125
		-1366	5 625
1 34 1	$= 5^3 \times 5^3$	1000	5 125
1.74	- 4	gares	5 25
	1. 15625 is a perfect cube.		5.
	Secretary 1		
	140 has to be distaled - 1 - 1 - 1	515 C	-
2.	in the make it a person of the	100	
(a)	5400	200	
			2 5400
Bd!"	5400 = 2 x 2 x 2 x 5 x 5 x 3 x 3 x 3.	THE REAL PROPERTY.	2 2700
		uporeo	2 1350
	$= 2^3 \times 5^2 \times 3^3$	5	5 675
		2	135
· Card	to make 5400 a perfect	3	9
4.7.16	Cube it must be multiplied		3
	by 5.		
		inc.	
	THE GODING OF BUILDING	5	408375
(iii)	4, 08, 375.	5	81675
			Activity and with a service of the control of the service of the s
801	4,08,375 = 5x5x5x3x3x3x11X11	5	3267
		3	Control of the Contro
	$= 5^3 \times 3^3 \times 11^2$	3	.363
	1 102 375 a Carlect	11	
	to make 4,08,375 a perfect))
	Cube, it must be muliphou		
	by 11.		

		Date	
		Page	33 Staller
3			
(i)		q	2 370440.
		C	2 185220
8din	370440 = 2 x 2 x 2 x 5 x 3 x 3 x 3	C	2 92610
	× 7 × 7 × 7	-	5 46305
			3 9261
	$= 23 \times 5 \times 33 \times 73$	5	3 3087
		3	1029
	- : 370440 has to be divided	7	343
	by 5 to make it a perfect	-	1 49
	Cube.	Materiol	7
	THE NEXT ROLL REVOX		Sales Tisk
(iii)			
4	THE RESERVED WITH BUILDING STREET		
80%		2	2012472
	× 7 × II × II × II	2	1006236
	- 23 3	2	503118
	$= 2^3 \times 3^3 \times 7 \times 11^3$	3	251559
	2012/172		83853
	2012472 has to be divided	3	27951
	by 7 to make it a perfect cube.	7	9317
		11	1331
	S - S S S - S - S - S - S - S - S - S -	11	121
			11
	The state of the s		
	acoka 4 08 378 a reiget	-03	
5,5,		11-15	

	Exercise 4.3.	Page 34 Staller
1		
(i)	(9) 3.	9
		× 9.
&d"	$(9)^3 = 9 \times 9 \times 9$	X9
	= 729.	729
		780 /
***	(1) 3 ·	
(iii)	$\left(-\frac{1}{7}\right)^{3}$	
∞88°n	$\left(-\frac{1}{7}\right)^{3} = -\frac{1}{7} \times -\frac{1}{7} \times -\frac{1}{7}$	7
	7) 7 7 7	44 X 7
	= -1	49 G
	343.	343
	CXAXC A	
	(2-13'	A2 8 2 1 1 - (A)
1 1 44 44 7	$(3.7)^3$	3.7
81.7	$(3.7)^3 = 3.7 \times 3.7 \times 3.7$	× 37
821,		259 @ + 111
	= 50.653.	1369
		x 37 @
) 3 .	095830
(viii)	$(-0.3)^3$	+4107
	$-0.3 \times -0.3 \times -0.3$	50.653 @
81:	- 0.9 x	XIII - ISSI T TEST
	= -0.027.	3
		× 3
		9.
		×3
		0.027



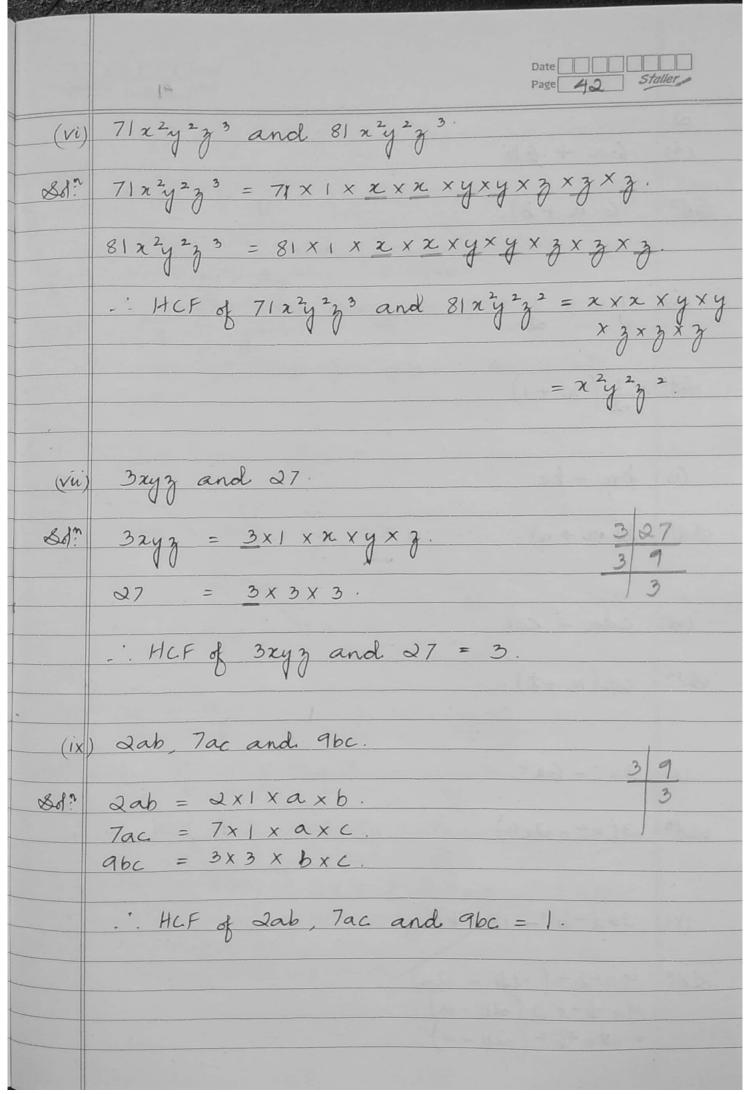
	35		Page 36	Staller,
	= 11			
	14.			
	4.3	The Francisco see 12-12	and derive	
(vii)	- 5832.		No. 10	
	Street, American			
81.	- 5832 = -2	x-2 x -2 x -3 x -3 x -3	1	5832
001	<u> </u>	x-3x-3x-3	2	2916
		<u> </u>	2	1458
	, 3 - 5832	$= \sqrt[3]{(-2)^3 \times (-3)^3 \times (-3)^3}$	3	729.
	· , \ 7800 -		3	243
		= 3/(-2x-3x-3)x	3	81
		1 (2 × - 3 × 3)	3	27
	***	-18	3	9
		- 10		3
	2 001		LVBTA	THE R.
(VIII)	-0.001		2	1000
0 0 40	0 0 1 0 -		21812	500
81.7	-0.001 = =	1000	2	250
1		disall rate and land	5	125
	<u> </u>	-1	5	25
		2x2x2x 5x5x5.	and the	5
	of all all			
	2	3 -13		
	\$ -0.001	$= \sqrt[3]{-1^3}$ $\sqrt[3]{2^3 \times 5^3}$	Take the	
		1 4 1 3		
		3/1-1/8	- 30 L.C.A.	Tel. Bell
		$=\sqrt[3]{\left(\frac{-1}{2\times5}\right)^2}$		
	· Local	= -1		
	e dela de	= -0.		

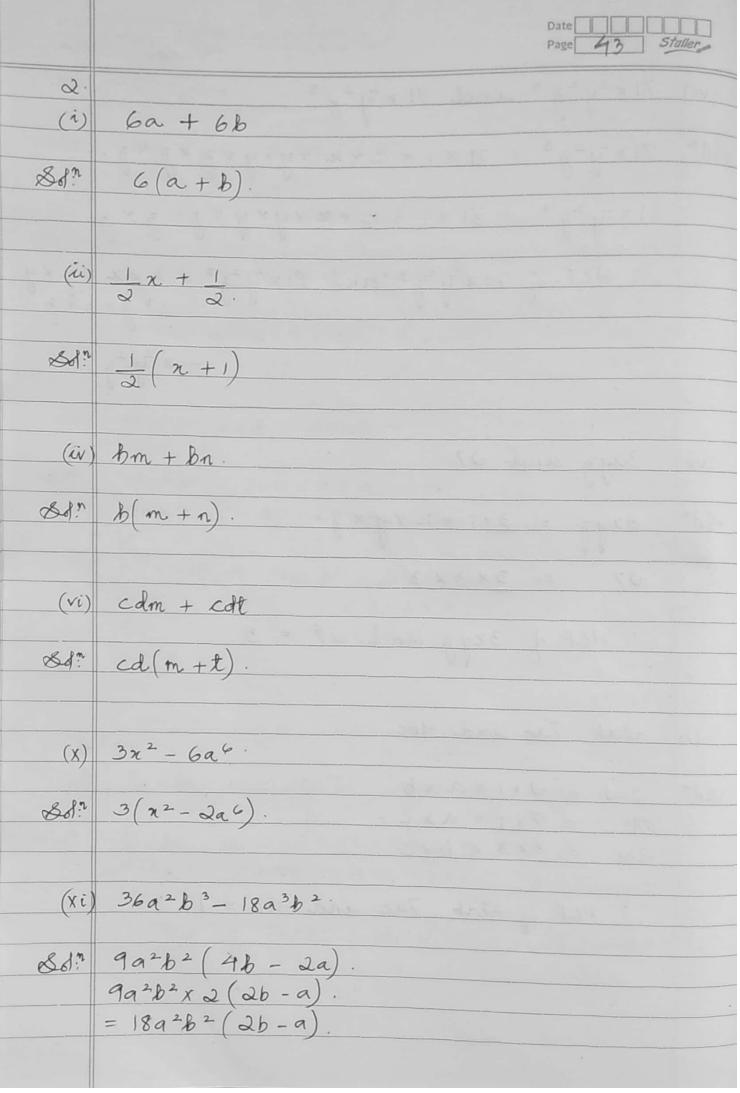
		Date Page 37 Staller
	3.	
-	(i)	1
	800	Units digit of the cabe = 6. * Refer text
		Pg. 57
	(îi)	PROPERTIES
-	88.9	Units digit of the cube root = 5. OF CUBES.
11000		
	(ú)	
-	(ai)	Units digit of the cube root = 0.
	(ir)	Me-xe-xe-life
,	819	Viits digit of the cube root = 9.
1		1
	4.	
	(i)	17576
		13=1
1000	∞295	17576.
-		33 = 27.
-		here, the biggest cube number below 40 = 64.
		17 is 8, i.e., 23 53 = 126.
		here, the biggest cube number below $4^3 = 64$. 17 is 8, i.e., 2^3 $5^3 = 126$. .'. the tens digit of the cube root is 5.
-		
-		4.2.276
-	(ii)	42875.
-	e m	42875
-	∞61:	
-		here the him of the man has the
None.		42 is 27 10 33
Vania.		here, the biggest cube number below 42 is 27, w.e., 33 the tens digit of the cube root is 3
-		J. 6
-		

		13=1
(iv)	205379.	23=8
		33=27
∞0):	205379	43=44
	De la lace Bal	
	here, the biggest cube number below	63-216
	here, the biggest cube number below 205 is 125, ie., 53 The tens digit of the cube rost is 5.	73=343
	. The lens digit of the cute its	8= 512
	By State of the st	93=729
(vi)		
	-103823.	
88.	-103823	
,		
	here the biggest cube no below	
	103 is 64, Tie; 43	av.
	here, the biggest cube no below 103 is 64, ie; 43 . The tens digit of the cube vost is 4	,
		The State of the S
	the a wall sale of how were so	
5.	the digit of the court of the almost	
(i)	592704.	
	The control on man dispersion and the	
8899	592704.	
	Dist & Macarba is 4 x	he
	The units digit of the care is 4.	
	the units digit of the cube is 4, to units digit of the cube root is 4.	
	here, the biggest cube no below 592 is 512, ie, 83 root the lens digit of the cube, is 8	
	here, the biggest aut to root	
	592 is six, it of the cuberis 8	
	the lens argue of	
	\$\squa704 = 84	
	- · V510/01	

	Page 39 Staller
(iv)) 185193.
	7 783113
Sof!"	-185193
	•
	the units digit of the cube is 3, the units digit of the cube root is 7.
	units digit of the cube root is 7.
	here, the biggest cube no below 185
	is 125, ie, 53 root
	here, the biggest cube no below 185 is 125, ie, 53 root the tens digit of the cube is 5.
	3√-185193 = -57
(vi	91125
88?	91125
	: the units digit of the cube is 5, the
	": the units digit of the cube is 5 the units digit of the cube root is 5.
	here, the biggest cube no below 91
	is 64, i.e. 943
	here, the biggest cube no below 91 is 64, i.e. 43 the tens digit of the cube root is 4.
	the transfer and the section of the section
	THE RESERVE OF THE PROPERTY OF
	The man that I had a supply the
	THE RESIDENCE OF THE PROPERTY OF THE PARTY O

	7. Factorisation. Date Page 41	Staller
	Exercise 7.1	12
[-		6.
(i)	12 n 2 and 16 y 3.	
&1:°	1222 - 2 × 2 × 3 × 2 × 2 × 2	16
<u> </u>	$12x^{2} = 2 \times 2 \times 3 \times 2 \times$	8.
	16y3 = 2x2x2x2xyxyxy	4.
	:. HCF of 122 + 16y = 2 x 2 = 4.	2
	- 4.	Ta.
(ii)	$15a^2b^2$ and $-24ab$.	
	1) a n ara = 41000.	Tr.
&d."	$15a^2b^2 = 3x5 \times a \times a \times b \times b.$	15
	-24ab = -2x-2x-2x3xaxb.	5
	- '. HCF of 15a2b2 and -24ab.	24.
	$= 3 \times a \times b.$	12
	= 3ab.	6
		3.
	-2x-2	x-2 x
	here there is entitled they had	
(iv)	72 abc and 27a2bc. 327 2	72
	392	36
Sol?	72 abc = 2x2x2x3x3 xaxbxc 3 2	18
	$27a^2bc = 3x 3x 3x axa xbxc.$	9
		13
	HCF of 72abc and 27a2bc = 3x3 x ax	bxc
	= 9abc.	
	212 SEAL SECTION OF THE PARTY O	





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(iii)	$5x^2 - 10x^3 + 20x^4$
8d:	HCF & 5, 10, 20 = 5
	HCF of x^2 , x^3 and $x^4 = x^2$
	-: HCF of 5x2, 10x3 and 20x4 = 5x2
	$5x^{2} - 10x^{3} + 20x^{4} = 5x^{2} \times 1 - 5x^{2} \times 2x + 5x^{2}$ $\times 4x^{2}$
	$=5x^2(1-2x+4x^2).$
(vi)	32 y = - 12xy + 27x3y3.
&d."	HCF of 3, 12, 27 = 3
	HCF of χ^2 , χ , $\chi^3 = \chi$
	HCF of y2, y, y3 = y.
	. Her of $3x^2y^2$, $12xy$ and $27x^3y^3 = 3xy$.
	$\frac{1}{12} \cdot \frac{3x^2y^2 - 12xy + 27x^3y^3 = 3xy \times 1xy - 3xy \times 4}{12xy \times 9x^2y^2}$
	$= 3xy\left(xy - 4 + 9x^2y^2\right)$

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(x) 20p²g² - 10pg.

81. HCF of 20 and 10 = 10.

 $HCF of P^2 and P = P$

HCF of g2 and g = g.

- · . HCF of 20p2g2-10pg=10pg.

.. 20pg = 10pg x 2pg - 10pg x 1

= 10 pg (2pg-1).

(xii) - 10a3b + 30ab3 - 20a3b3.

88!" HCF of 10, 30 and 20 = 10.

HCF of a3, a \$ a3 = a.

HCF of b, b3 and b3 = b.

... HCF of -10a3b + 30ab3 - 20a3b3 = 10 ab.

 a^{1} , $-10a^{3}b + 30ab^{3} - 20a^{3}b^{3} = 10ab \times -1a^{2} + 10ab \times 3b^{2}$ $-10ab \times 2a^{2}b^{2}$

 $= 10 ab \left(a^2 + 3b^2 - 2a^2b^2\right)$

(Xiii)

7a2b- 2a2

HCF of 7 and 2 = 1

HCF of a^2 and $a^2 = a^2$.

... HCF of 7a2b - 2a2 = 1a2

 $-1.7a^2b-2a^2=1a^2(7b-2).$

(xv) 22/3 - 4xy3 + 2023

Sol! HCF of x^2 , x and $x^3 = x$.

. HCF of x2y3 - 4xy3 + 20x3 = x

- : x2yy - 4xy3 + 2023 = x x xyy - x x 4y3 + 2x2022

= x (xyz - 4y3 + 20x2).

(xvi) 26 x 3 - 13x 2/2.

Sol HCF of 26 and 13 = 13.

HCF of x^2 and $x^2 = x^2$

. HCF of 26x3-13x2y2 = 13x2.

 $\frac{1}{26\pi^{3} - 13\pi^{2}y^{2}} = 13x^{2} \times 2\pi - 13 \times 1y^{2}$ $= 13x^{2} \left(2x - 1y^{2}\right)$

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Exercise 7.2.

$$= x(x+9) + y(x+9).$$

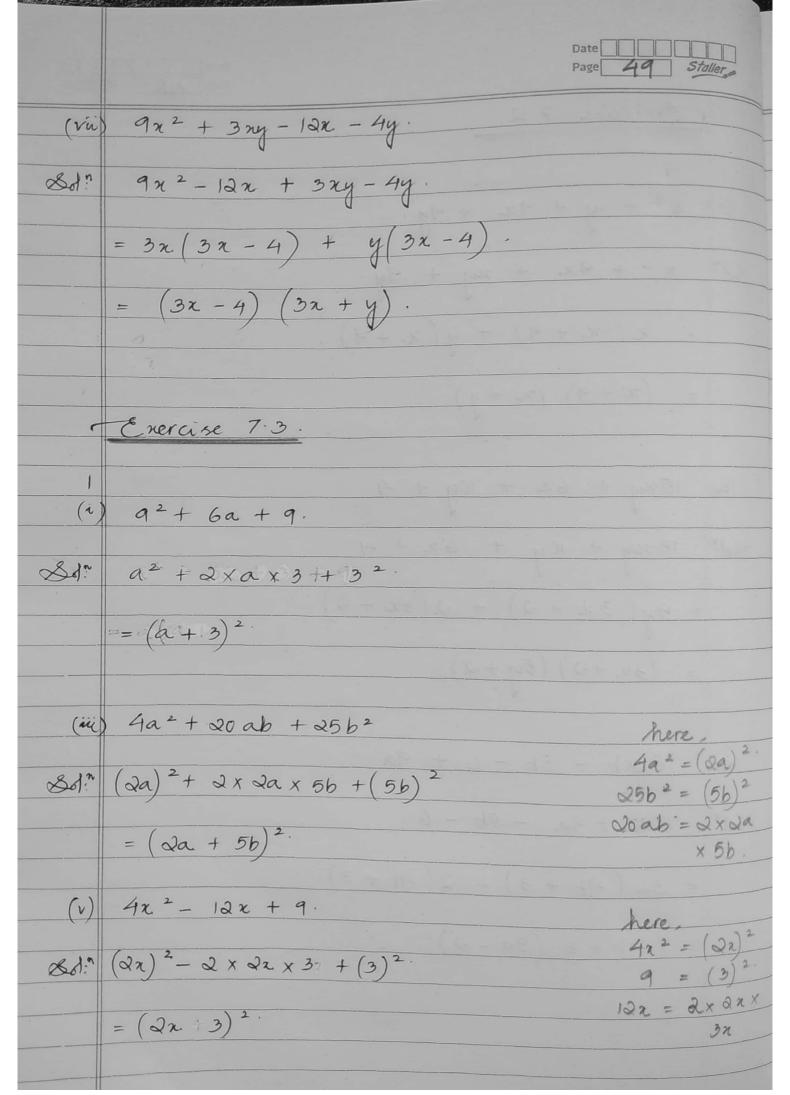
$$= (x+9)(x+y)$$

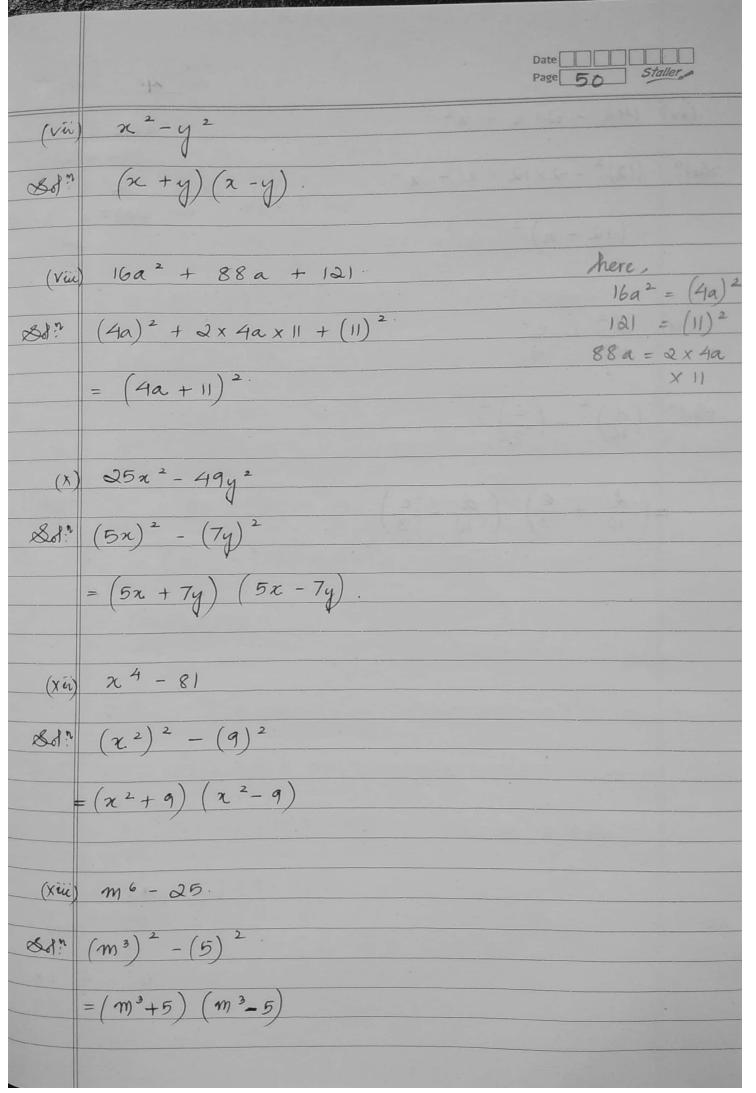
$$=5y(3x+2)+2(3x+2).$$

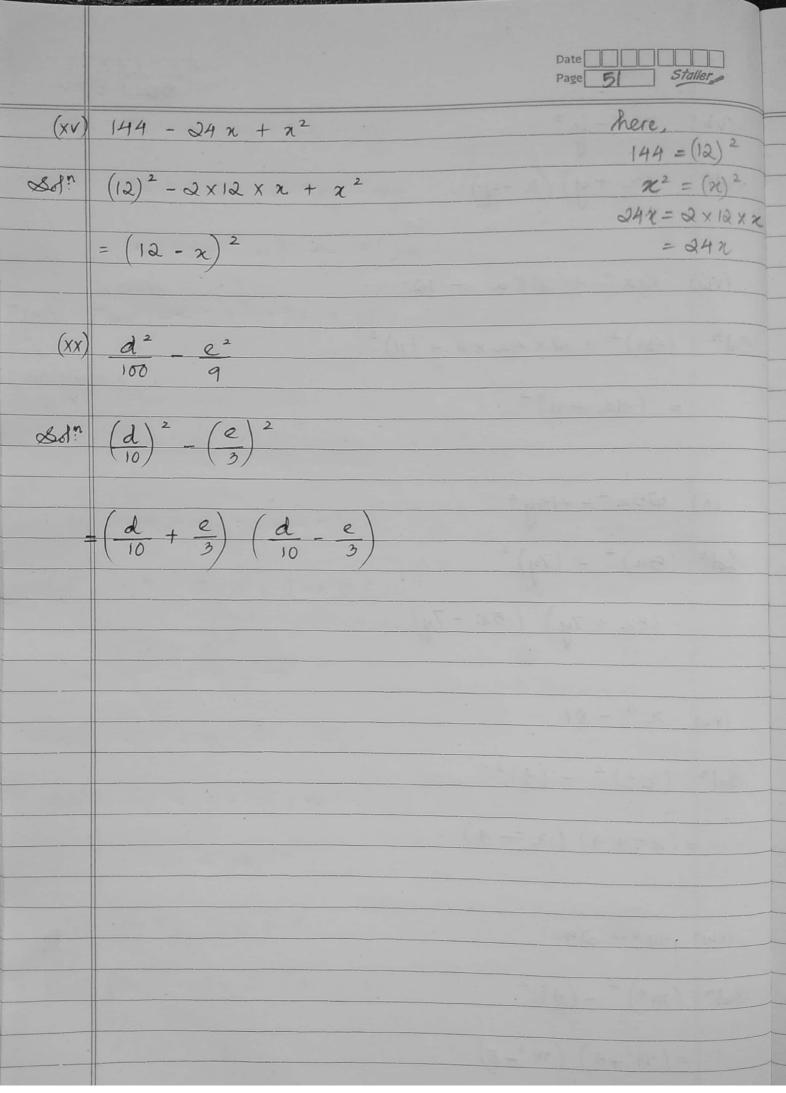
$$= (3x+2)(5y+2)$$

$$= 3a(4b+3)-2(4b+3).$$

$$= (4b+3)(3a-2).$$







Exercise 7.4.

(i)
$$\chi^2 - 15\chi + 56$$
.

$$88!$$
 $x^2 - 8x - 7x + 56$.

$$= \varkappa \left(\varkappa - 8 \right) - 7 \left(\varkappa - 8 \right).$$

$$= (x - 8)(x - 7).$$

$$(iii)$$
 $x^2 + 8x + 15$.

$$= \chi \left(\chi + 5\right) + 3\left(\chi + 5\right).$$

$$= (x+5)(x+3).$$

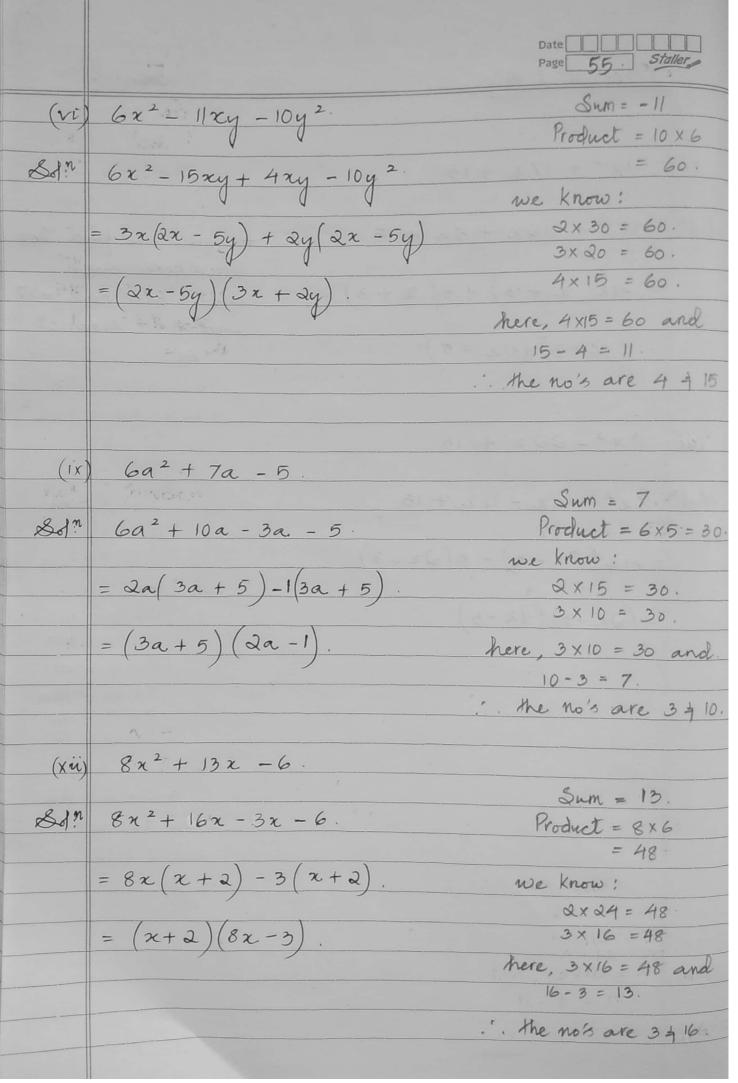
(v)
$$\chi^2 - 15\chi + 36$$
.

$$\chi^2 - 12\chi - 3\chi + 36.$$

$$= \varkappa \left(\varkappa - 12 \right) - 3 \left(\varkappa - 12 \right).$$

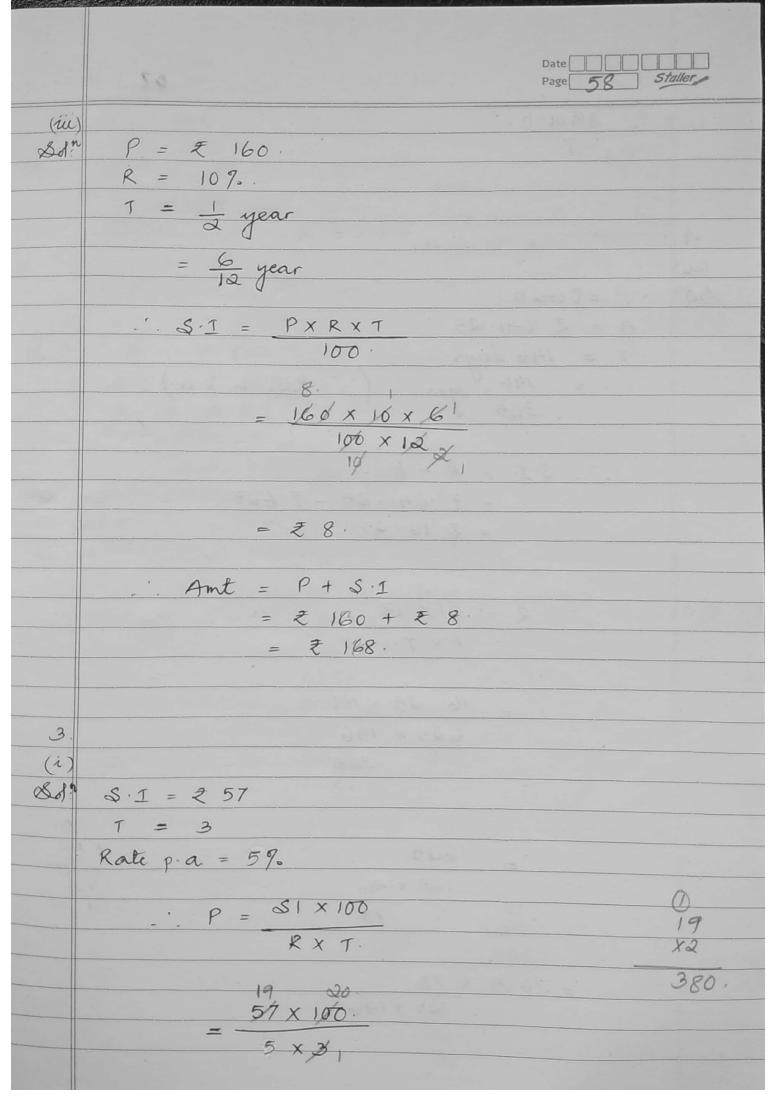
$$= (\chi - 12)(\chi - 3).$$

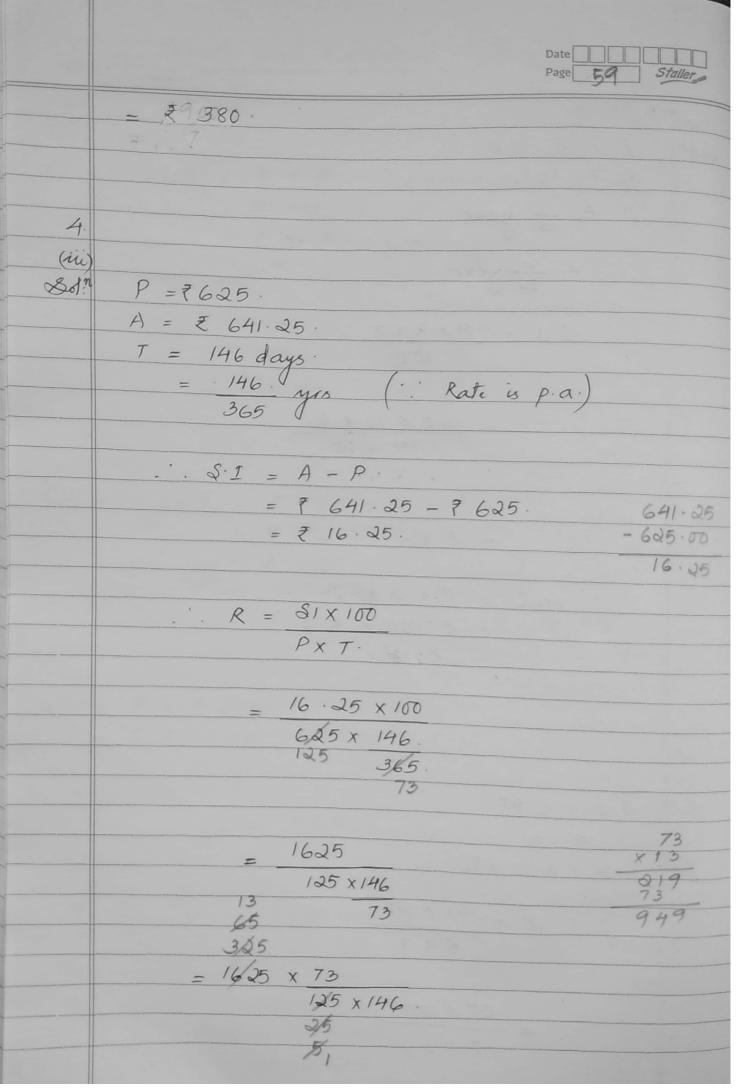
	Page 53 Staller
(viii)	$\chi^2 - 36\chi + 99$
&dn	$x^2 - 33x - 3x + 99$
	$= \varkappa \left(\varkappa - 33 \right) - 3 \left(\varkappa - 33 \right).$
	$= (\varkappa - 33)(\varkappa - 3).$
(x)	$\chi^2 + 14\chi + 45$
&1:	$1 \times 2 + 9 \times + 5 \times + 45$.
	= x(x, +q) + 5(x+q).
,	=)(x+q)(x+5).
(Xi	$\chi^2 + 4\chi - 77.$
80!	$x^2 + 11x - 7x - 77$
	$= \chi(\chi + 11) - 7(\chi + 11).$
	= (x+1)(x-7).
	Scanned with CamScanner

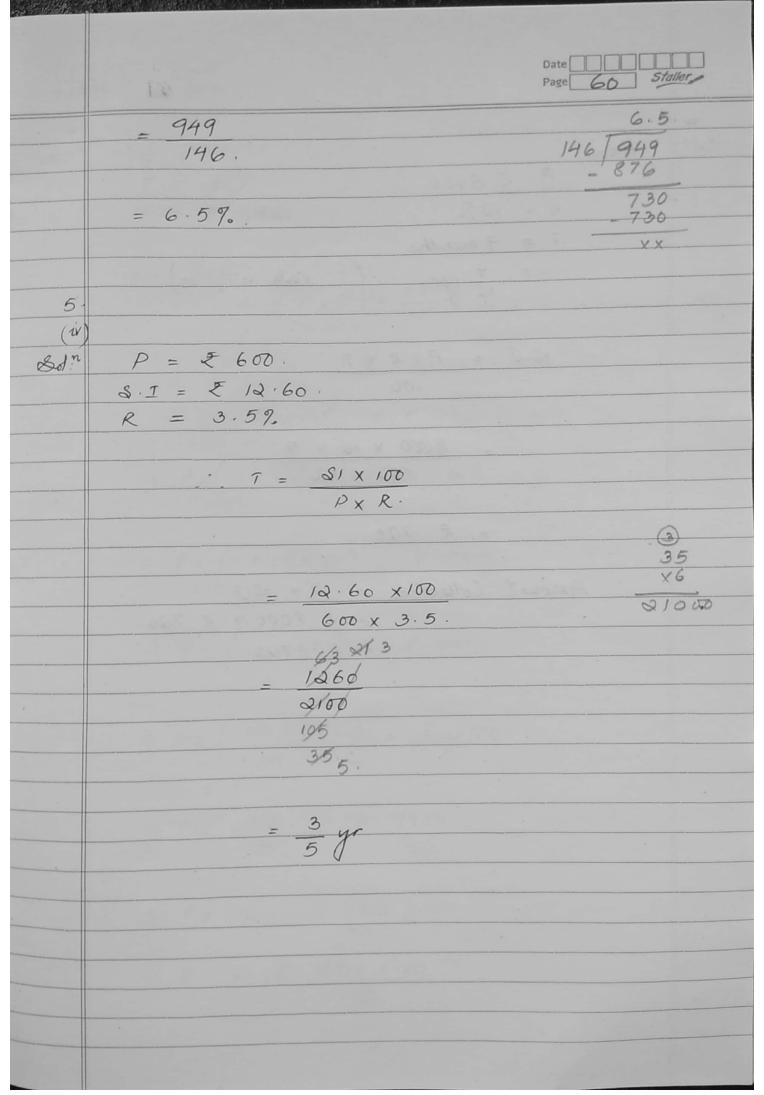


	The standard beauty and the	Page 56 Staller
(xv)	$6 + 11x + 4x^2$	Sum = 11
		Product = 6 × 4.
88ª	6 + 8x + 3x + 4x ²	= 24.
		we know,
	=2(3+4x)+n(3+4x).	2×12 = 24.
		3×8 = Q4.
	= (3+4x)(2+x).	here, 3×8 = 24
		and 3+8=11
	ALLE TELEVISION OF STREET	, the no's are 3 98.
	ST LET WILL A STATE OF STATE O	
(X viii)	$9x^2 - 8x - 1$	
2 0 4		Sum = 8.
Set:"	$9x^2 - 9x + 1x - 1$	Product = 9x1
		= 9.
	= 9x(x-1)+1(x-1).	we know,
		9X1 = 9
	= (x-1)(9x+1)	and 9-1=8
		.'. the no's are 9 + 1.
	-12 (1 11	
(xx)	5b ² + 6b - 11.	C ,
217	E12+11h-Eh-11	Sum = 6.
801:	$5b^2 + 11b - 5b - 11$	Product = 11x5
	= b(5b+11)-1(5b+11)	= 55 .
		we know,
	= (5b+11)(b-1)	11×5 = 55
	- (50111) (2)	11-5=6.
	D X X	the no's are 11 \$ 5.
0. 10		

	10. Simple and Compound Interestate 10.1 Exercise 10.1
	Exercise 10.1
1.	
(i)	
887	Amount = P + I
	= ₹ 3520 + ₹ 250.
	= ₹ 3770.
(ii)	Sideres The State of the State
88 in	Interest = A - P
	= ₹ 6240 - ₹ 5780, 6240
	= ₹ 460.
	460
60	
88ª	Q: 1 A
201:	Principal = A - I
	= ₹ 672 - ₹ 72.
	= 2 600.
ع.	
(i)	
&d?	P = ₹ 8500
	R = 8.57
	T = 1 yr.
	SI = PXRXT
	100. × 85 (A)
	0 425
	$= 8500 \times 8.5 \times 1$ + 680
	100. 722.5
	8500.0
	= 2722.5
	$Amt = P + S.I \qquad 9222.5$
	= ₹ 9222.5







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	Fage 6
6.	
&d!	Here,
	P = 7 8000.
	R = 12 %
	T = 9 months
	= 9 yr. (·: rate is p.a)
	12
	S.I = PXRXT
	100.
	= 8000 × 12 × 9
	100 × 12,
	= ₹ 720.
	Amount Collected = P + S.I
	= ₹ 8000 + ₹ 720.
	= ₹ 8720

9. Sof!"

we know,

$$A = P \times \left(1 + \frac{R \times T}{100} \right)$$

. we can write:

$$=) P \times \left(1 + \frac{R \times T}{100}\right) = \overline{2} 9900.$$

$$=) P \times \left(1 + 8 \times 4\right) = 79900.$$

$$=) P \times (1 + 32) = 79900$$

$$=) P \times \left(\frac{100 + 32}{100} \right) = 7 9900.$$

$$=) P = 79900 \times 100^{20}$$

$$13/2$$

$$6/6$$

7500

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= ₹ 7500.

... Amount borrowed originally = \$ 7500.

11.

. . S. I = A - P

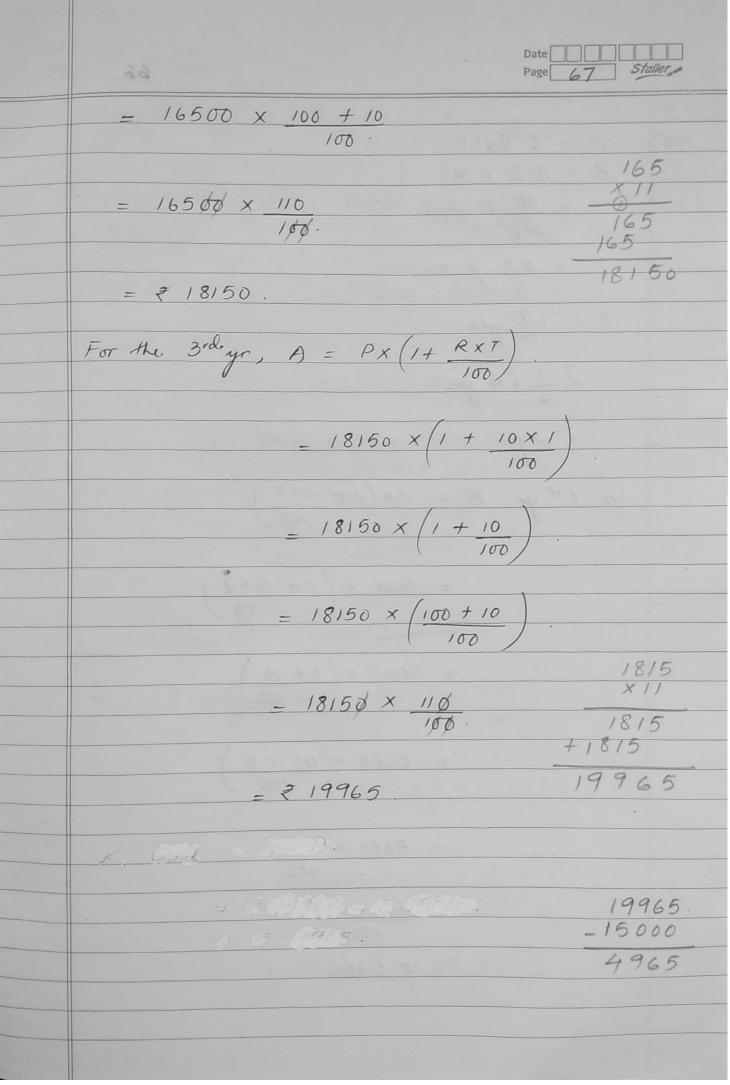
.. R = S1 × 100

= 8% p.a.

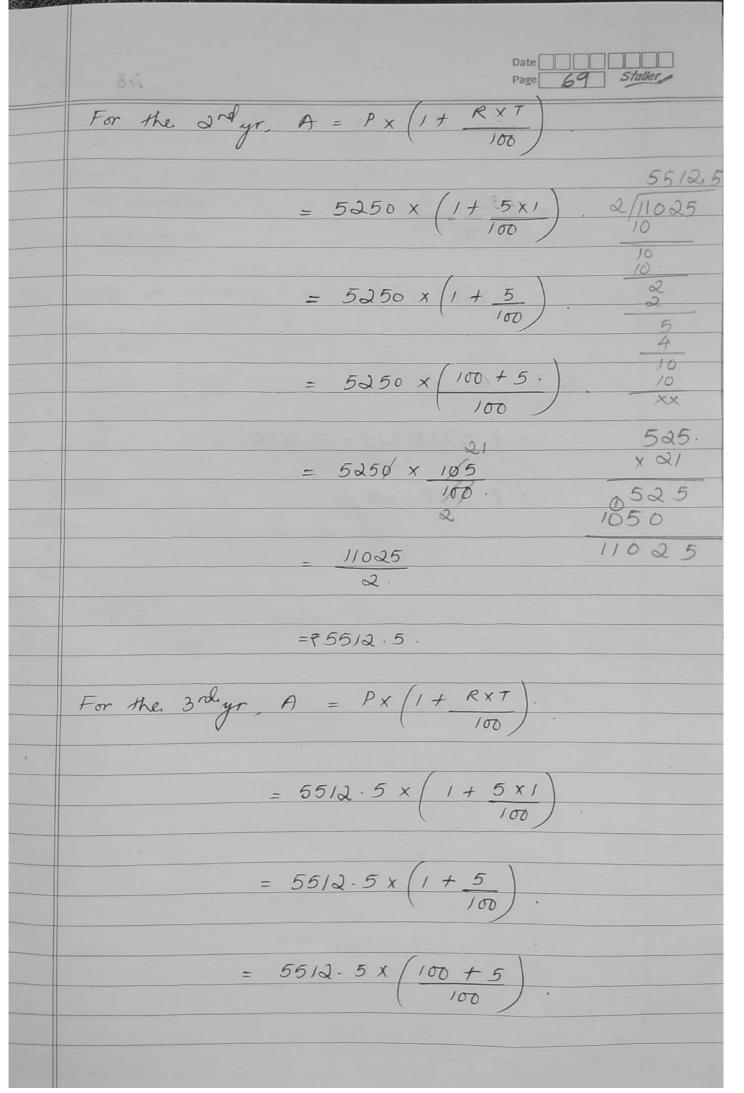
		Date Staller
13.		
(i)		SET 5 4 19 19 19 25 1
Sd:"	P = ₹ 5000	35-8-1 = 9 19-15-15
	R = 10%.	and I do
	T = 3yrs.	
	· ·	= 6
	$P = P \times \left(1 + R \times T \right)$	
	The stable to th	
	$= 5000 \times \left(1 + 10 \times 3\right)$	•
	$= 5000 \times \left(1 + \frac{30}{100} \right)$	
	2000	
	$= 5000 \times \left(100 + 30 \right)$	
	100	
	Partie State of the Season Season	13 ×5
	= 5000 x 130	65
	100	
	- 13 X H 15	
	=₹6500.	

	Date [Page [65 Staller
)		
(iv)	D = 70-	
&dn	P = 720.	
	R = 8.59. $T = 3yrs$.	3 3 15 bgs
	1 = 3yrs.	5 A : 1
	- Ass	0
	$A = P \times \left(1 + \frac{R \times T}{100}\right)$	85
	100)	25.5
		0.5
	$= 720 \times \left(1 + \frac{8.5 \times 3}{100}\right)$	
	700	
	$= 720 \times (1 + 25.5)$	
	100/	
		00
	$= 720 \times \left(100 + 25.5 \right)$	1255
	-100.	0 x 72 3
		02.510
	$= 720 \times 125.5.$	
	100	9036.0
	<u> </u>	
	10	
	= ₹ 903.6.	
= 3		
	The state of the s	
	The transfer and a second	

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	Exercise 10.2.	
1.		
Sdin	P = ₹ 15,000.	
307 ,	R = 10.9. p.a.	
	T = 3 yrs.	
	For the 1st yr, $A = P \times \left(1 + \frac{R \times 7}{100}\right)$	
	$= 15000 \times \left(1 + \frac{10 \times 1}{100}\right)$	
	The second of th	
	$= 15000 \times \left(1 + \frac{10}{100}\right)$ $= 15000 \times \left(100 + 10\right)$ 100	
	15	
	= 15000 × 110 × 11	
	$= 15000 \times 110 \times 11$ 15000×15	
	+ 15	
	= 7 16500.	
	For the 2rd yr, A = PX (1+ RXT)	
	$= 16500 \times \left(1 + 10 \times 1\right)$	
	$= 16500 \times \left(1 + 10 \atop 100\right).$	



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3.			
8dn	P = ₹ 5000.		
	R = 10% p.a.		
	= 1059. p.a.		
	21		
_	= 5% p.a.		
	7 - 1-1		
	$T = 1 \frac{1}{2} yrs$		
	$= \frac{3}{2} \times 2 \text{ yrs}.$		
	= 3 yrs.		
D	For $1 x yr$, $A = P \times \left(1 + R \times T\right)$		
	100		
	$= 5000 \times \left(1 + 5 \times 1 \right)$		
	100)		
	$= 5000 \times \left(1 + 5\right)$		
	$= 5000 \times (160 + 5)$		
	= 5000 × 105 · ×5		
	= 525000°		
	100.		
	= ₹ 5250.		



	Date
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1100,5	
= 5512.5 × 105	11025 x21
100.	
100.	11025
	+ 22050
= 23152.5 4.	231525
,	
= ₹ 5788·125.	5788. 65.
7.30	4 231525
	F & O.
CT = A - P	31
	- 981
= ₹ 5788·125- ₹ 5000.	- 32
	32
= 7 788.125 //	= 32 4
786.765	- 4 .
/	- 8
The second secon	20
THE TAXABLE PROPERTY OF THE PR	
	D
TAXE AND BURNES	
The state of the s	

&st.

$$T = 3yrs$$
.

For the 1st yr,
$$A = P \times (1 + R \times T)$$

$$= 20,000 \times \left(1 + \frac{15 \times 1}{100}\right)$$

$$= 20,000 \times \left(1 + 15\right)$$

$$= 20,000 \times (100 + 15)$$

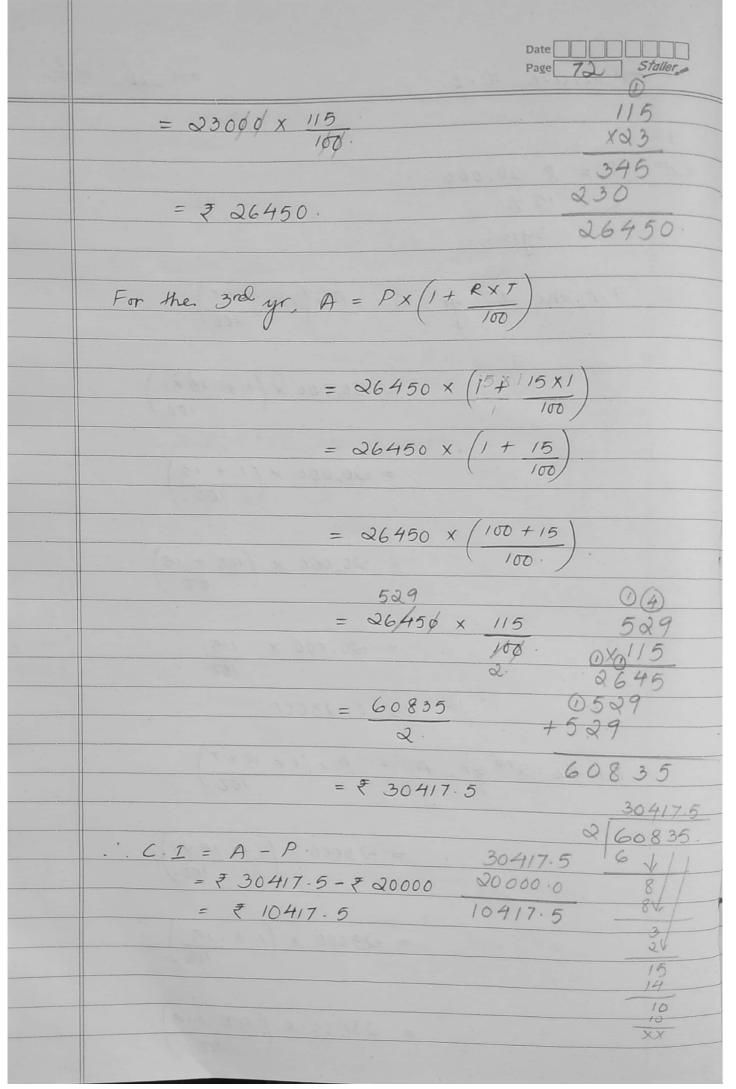
$$= 20,000 \times 115$$

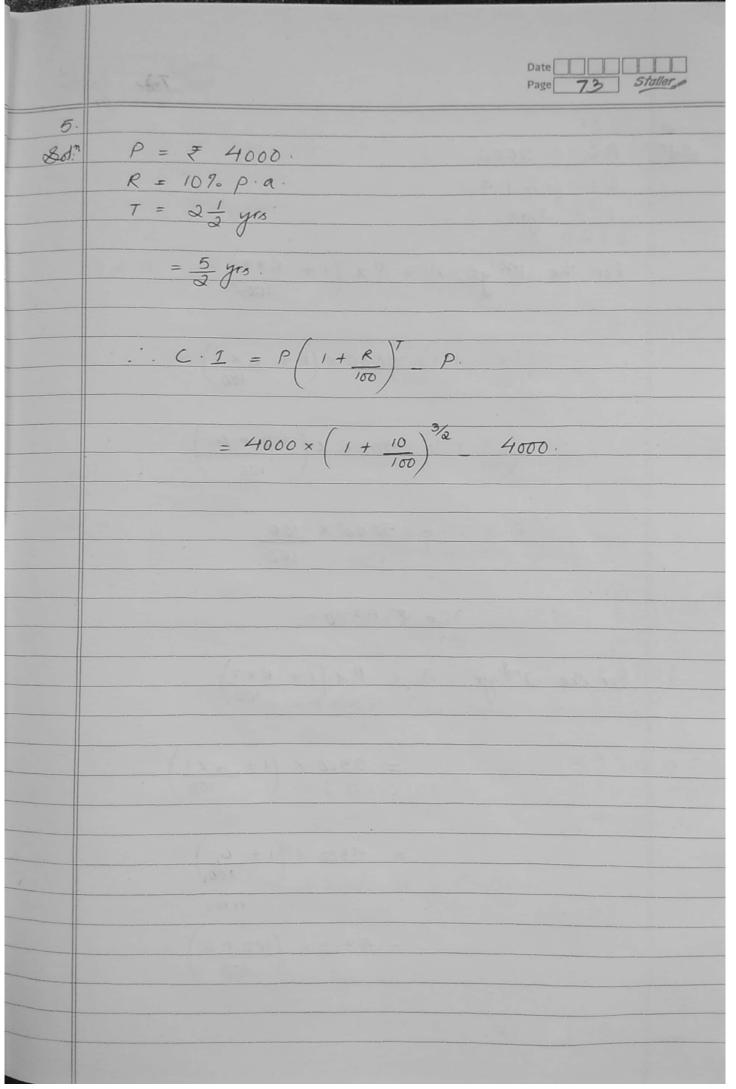
For the 2rd yr,
$$A = P \times (1 + R \times T)$$

$$= 23000 \times \left(1 + 15 \times 1\right)$$

$$= 23000 \times \left(1 + \frac{15}{100}\right)$$

$$= 23000 \times (100 + 15)$$





		Date Date	
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6			
8d*	P = ₹ 5000		
	R = 69. p.a		
	T = 3yrs.	AND THE RESERVE OF THE PERSON	
	*		
	For the 1st yr	$A = P \times \left(1 + R \times T\right)$	
	7	100)	
		5	
		$= 5000 \times (1 + 6 \times 1)$	
	4000	= 5000 x (100 + 6.)	
		$= 5000 \times \left(\frac{100 + 6}{100}\right)$	106
			×5
		$= 5000 \times 106$	5300
		100	
		= ₹ 53 m	
		= < 9300	
	For the 2nd yr.	$A = P \times (1 + R \times 7)$	
		$A = P \times \left(1 + R \times T\right)$	
		$= 5300 \times (1 + 6 \times 1)$	
		100	
		$= 5300 \times (1+6)$	
		100)	
		52 · /	
		$= 5300 \times (100 + 6)$	
		The second of th	

Da Pa	
= 5300 x 106	106.
100	x53
	318
= ₹ 5618· +	5 30
E- 4 ard	5618
For the 3rd yr, $A = P \times (1 + R \times T)$	advard file
THE TAX B IS NOT A STATE OF THE PARTY OF THE	
$= 5618 \times (1 + 6 \times 1)$	
$= 5618 \times \left(1 + \frac{6}{100}\right)$	
100)	
$= 5618 \times \left(\frac{100 + 6}{100}\right)$	
100	
- 5/19 × 12/	303
= 5618 × 106	5618 X106.
	33708
= 595508	0000
100	+5618
	5955.08
= ₹ 5955.08.	-5000.00
2 2	955.08
$C \cdot \underline{I} = A - P \cdot \underline{I}$	
= ₹ 5955·08 - ₹ 5000 = ₹ 955·08) ·
= \ 100.00	
The state of the s	

10

Sd!n P = ₹ 20,000.

R = 8%.

T = 3yrs

For the 1st yr, A = Px (1+ RXT)

 $= 20,000 \times (1 + 8 \times 1)$

 $= 20,000 \times \left(1 + 8\right)$

 $= 20,000 \times \left(\frac{100 + 8}{100}\right)$

= 20,000 × 108

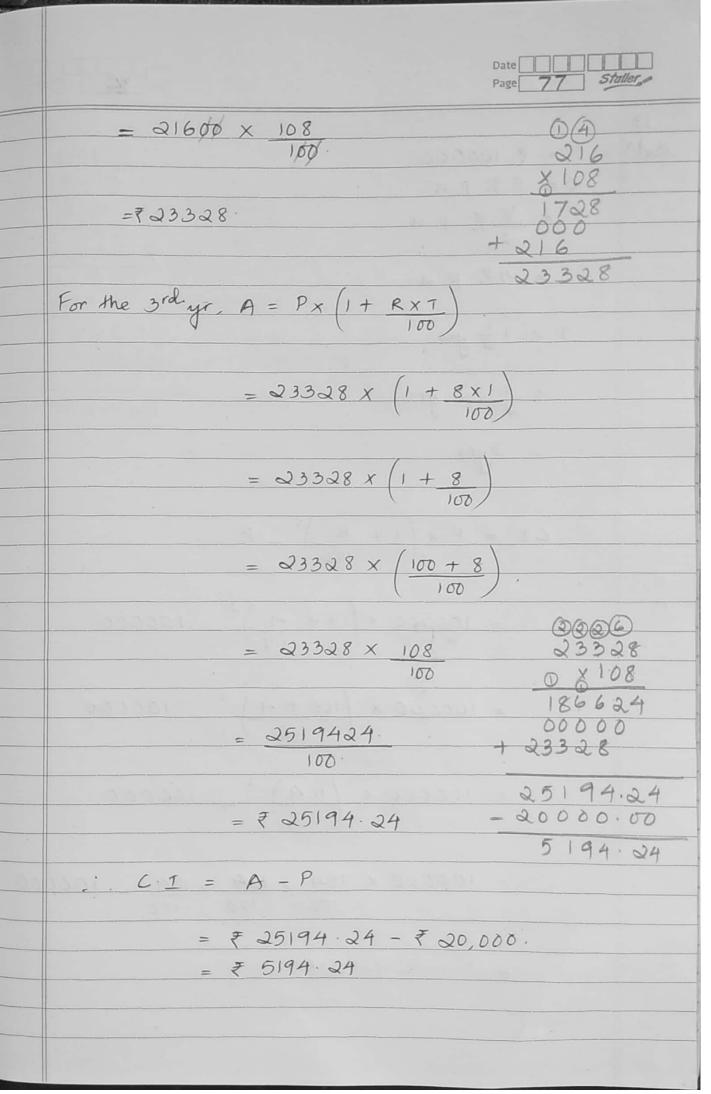
= 721600.

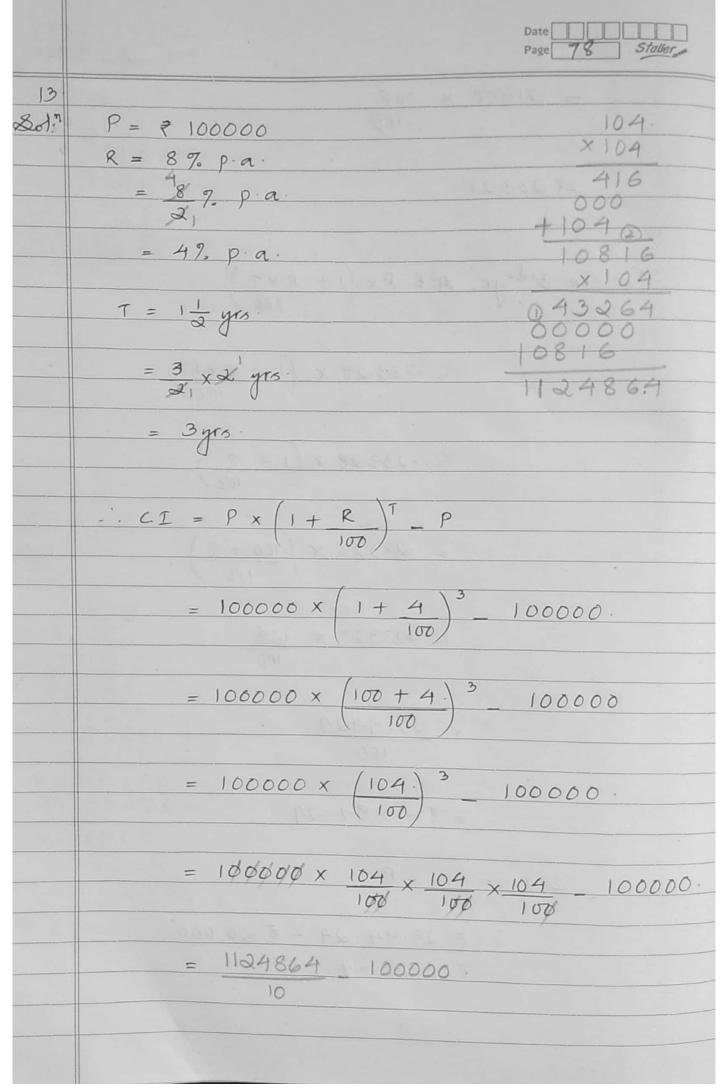
For the 2nd yr, $A = P \times \left(1 + R \times T\right)$

 $=21600\times\left(1+\frac{8\times1}{100}\right)$

 $= 21600 \times \left(1 + 8\right)$

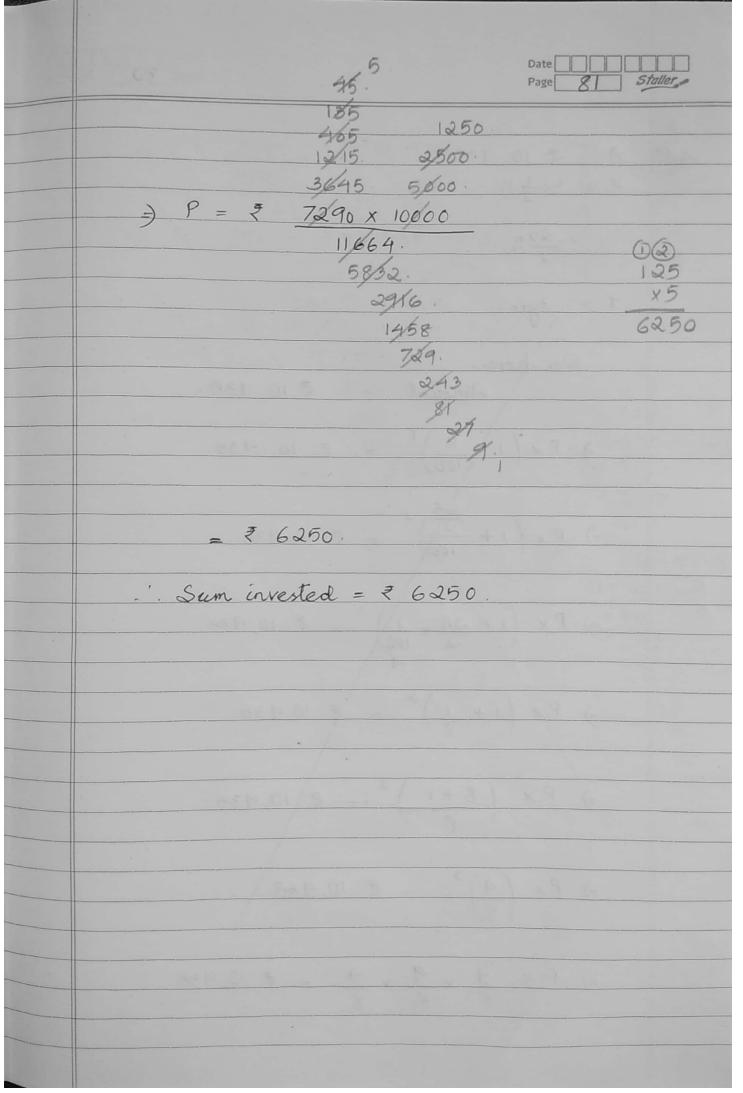
 $= 21600 \times (100 + 8)$





	Date Date Page 79 Staller
	= 1124864 - 1000000 . 1124864.
	-1000000
	= 124864. 124864
	10.
	= 7 12486.4.
	The state of the s
	Amount = 112486.4
*	
	The state of the s
	The second secon
	THE STATE OF THE S
	aper such approximation of the second
	- 2 5 5 5 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1
	0000 N 0100 N

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	Exercise 10.4.	
1.	And the second s	
&d:"	A = ₹ 7290	
	R = 8% p.a.	
	R = 87. p.a. $T = 2yrs.$	
	here,	
	Amount = 7 7290.	
	T A MARCH.	Lagina A
	$\Rightarrow P \times \left(1 + \frac{R}{100}\right)^{T} = ₹ 7290.$	
	,,,,,	
	1	
	$=) P_{X} \left(1 + 8 \right)^{2} = 7290.$	
	100/	
-		
) Px (100+8) = ₹ 7290.	
	100./	
	, , 2	
) Px (108) = ₹ 7290.	108
	100	×108
		0864
	=) P × 108 × 108 = ₹ 7290.	+108
	100 100	+108
		11664
) P × 11664 = ₹ 7290,	
	10000	
) Px 11664 = ₹ 7290 × 10000	
	7	A STATE OF THE STA
) P = ₹ 7290 x 10000	
	11664.	1
		1 4 21



83

$$R = 12\frac{1}{2}\%. = 25\%$$
 $T = 3$

=)
$$P \times (1 + R)^T = ₹ 10,935$$
.

$$= P \times \left(1 + \frac{25}{2}\right)^{3} = \neq 10,935.$$

$$= P \times (1 + 25 \times \frac{1}{2})^{3} = = 10,935.$$

$$=$$
 $P \times (1+1)^3 = 70,935.$

$$= P \times (8+1)^{3} = 70,935.$$

$$=) P \times \left(\frac{9}{8}\right)^3 = \mp 10,935.$$

	Date
83	Page 83 Staller
=) P x 729 =	₹ 10, 935 × 512.
	₹ 10, 935 × 512.
	465
	3645
=) P = ₹ 10	/935 x 512 512 x 15
	729.
6813	
	7680
	9.
7	7/00
	7680.
.'. Principal =	= ₹ 7680
·······································	
EPIR TO A	LIVE STEEN ALL FILLY
CN18 3	
The state of the s	

	5	
28	21	n

$$A = 78192$$

 $R = 6\frac{2}{3}9$

$$=\frac{20}{3} \%.$$

$$=) P \times (1 + R)^{T} = = = 8192.$$

$$=) 6750 \times \left(1 + \frac{20}{3}\right)^{T} = 78192.$$

=)
$$6750 \times \left(1 + 20 \times \frac{1}{3}\right)^{T} = ₹ 8192$$

$$=$$
 6750 × $\left(1+\frac{1}{15}\right)^{T} = ₹8192$

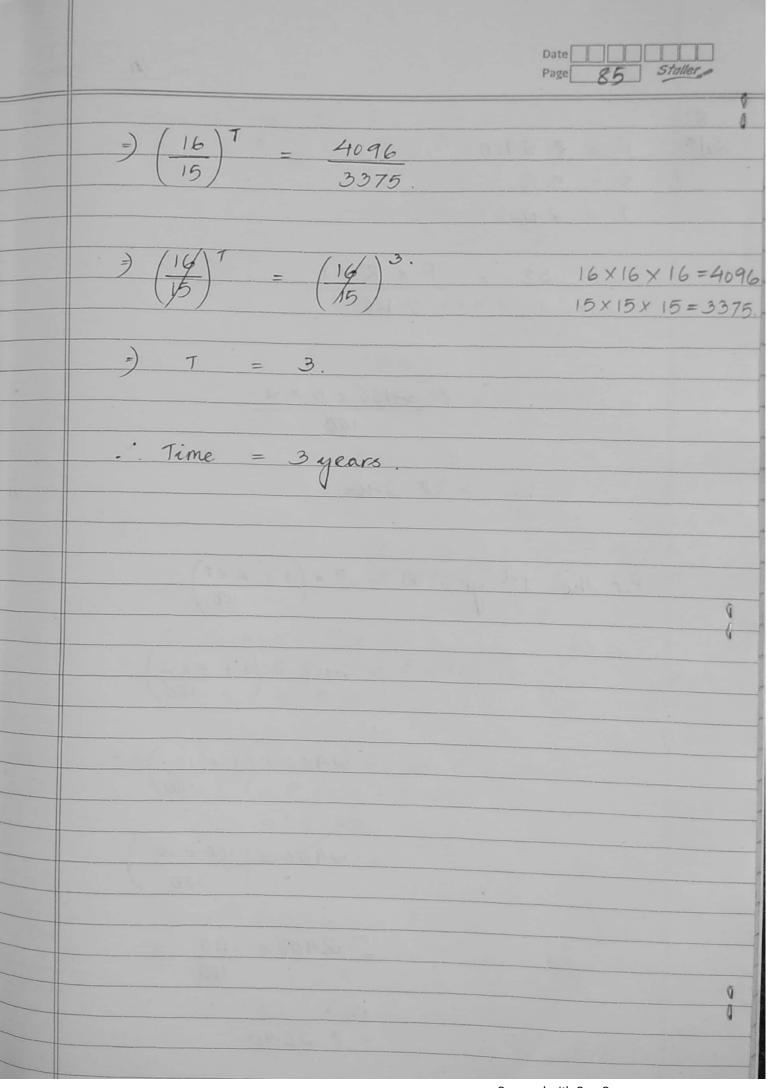
$$= \frac{1}{15} = \frac{1}{15$$

$$=$$
 6750 $\times (16)^T = 78192$

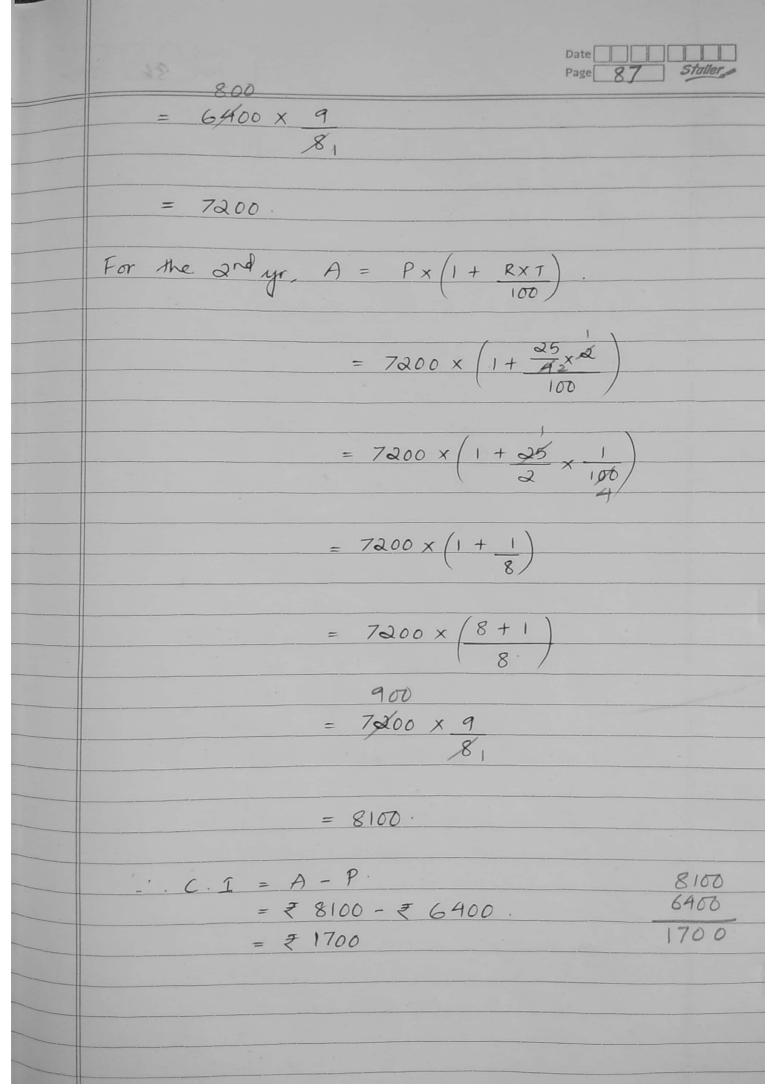
$$= \frac{16}{15} = \frac{4096}{8192}$$

$$= \frac{8192}{6750}$$

$$= \frac{3375}{15}$$



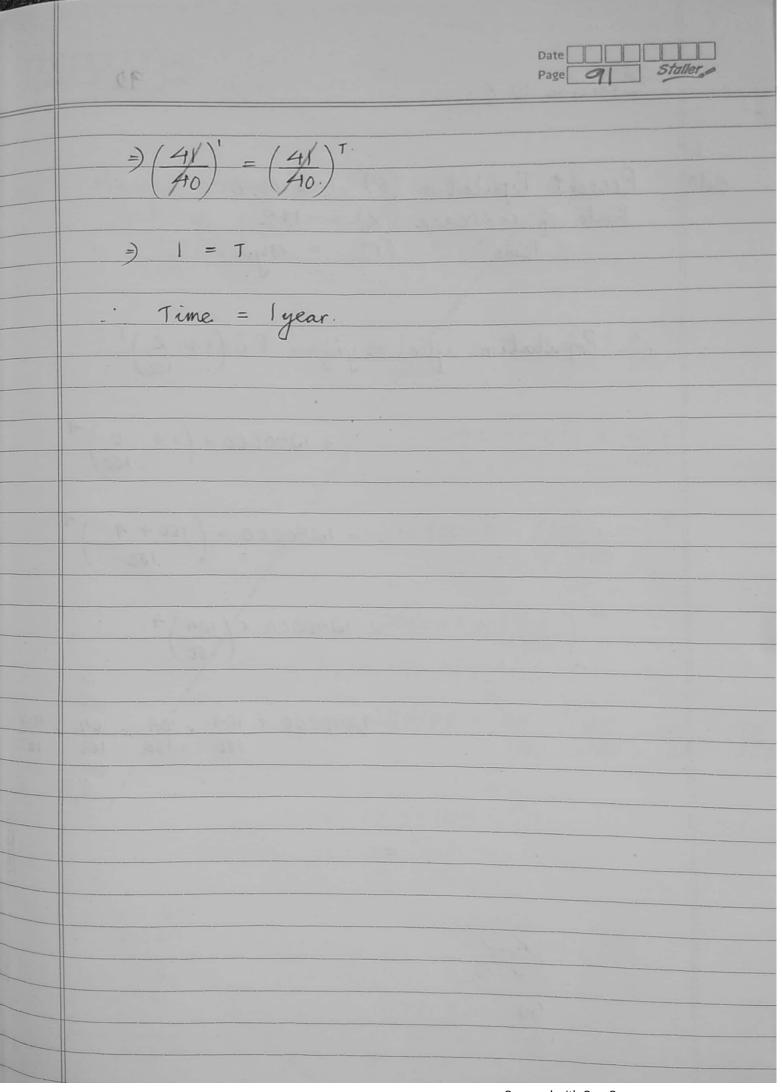
	Date Date Page 86 Staller
8.	The state of the s
88ª	P = ₹ 6400.
	$R = 6\frac{1}{4} 9_{\circ}.$
	LE LENGTH I X MARK .
	= 25 %
	T = 2 yrs.
	-' $ -$
	100
	= ₹ 6400 x 25 x 2 190 x 4.
	= 7 6400 x 25 x 2
	190 × 41.
1	= ₹ 8·00 ·
	For the 1st year, A = PX(1+RXT)
	(00.)
	$\frac{25}{4} \times 2$
	$=6400 \times \left(1 + \frac{25}{400} \times 2\right)$
	= 6400 x (1 + 25 1)
	$= 6400 \times \left(1 + 25 \times \frac{1}{2}\right)$
	$= 6400 \times \left(1 + 1\right)$
ſ	8)
	= 6400 x (8+1)
	$= 6400 \times \left(\frac{8+1}{8}\right)$



	Date Date Page 88 Staller
<i>a</i>	
9. 81n	Let the Principal be 7 100
	K = 10% p.a
	R = 10% p.a. $T = 2yrs.$
	U management of the second of
	We know,
	$A = P \times \left(1 + \frac{R}{100}\right)^{T}$
	$=100\times\left(1+\frac{10}{100}\right)^{2}$
	100)
	$= 100 \times \left(\frac{100 + 10}{100}\right)^{2}$
	100.)
	$= 100 \times \left(110\right)^{2}$
	(100)
	= 100 × 110 × 110
	100 100
	= ₹ 121.
	$\therefore C \cdot \underline{1} = A - P.$
	= ₹ 121 - ₹ 100.
	= ₹ 21.
	when c.1 = 721, P = 7 100.
	15
	· · TR (· T = 2 315 1)
-	$\frac{1}{1} = \frac{105}{21}$ Hen $P = \frac{100}{21} \times \frac{315}{21}$
	21

Date Page 89 Staller
= ₹ 1500 ·
S.I for ₹ 1500 @ 10% p.a for 2yrs.
$= P \times R \times T$
= 1500 × 10 × 2
= ₹ 300.
1 1 2 8 1 13 × DOBO = DOBO 6
77/1 411 × 33163 × 3363 (c)
The state of the s

	Date Page 90 Staller
11.	
8d*	A = ₹ 6560.
	P = ₹ 6400
	R = 59.0.a.
	= 5 7 p.a.
	2 "
	We know $A = Px \left(1 + \frac{R}{100}\right)^{T}$
	$H = PX \left(1 + \frac{R}{100} \right)$
	$6560 = 6400 \times \left(1 + \frac{5}{2}\right)^{T}$
	100)
	$=) 6560 = 6400 \times \left(1 + \cancel{5} \times \frac{1}{\cancel{2}}\right)^{T}$
	20
	$=$ 6560 = 6400 \times $\left(1+\frac{1}{40}\right)^{T}$
	40)
	$=$ 6560 = 6400 \times (40 + 1)
	40./
	$=)6560 = 6400 \times (41)^{T}$
	$= \begin{array}{c} = & 6560 = 6400 \times (41)^{T} \\ & & 41 \\ & & 40 \end{array}$ $= \begin{array}{c} 6560 = (41)^{T} \\ & & 6400 \end{array}$ $= \begin{array}{c} 6400 \times (41)^{T} \\ & & 40 \end{array}$
	80
	=) 6560 = (41)T.
	6400 (40)
	40



	Exercise 10.5.
1. &8.m	Present Population (P) = 12,50,000 Rate of increase (R) = 107. Time (T) = 4 yrs.
	Population after 4 yrs = Px (1+R) T
	$= 1250000 \times \left(1 + 10\right)^{4}$
	$= 1250000 \times \left(\frac{100 + 10}{100}\right)^{\frac{4}{100}}$
	$= 1250000 \times \left(\frac{110}{100}\right)^{\frac{1}{4}}.$
	$= 1250000 \times 110 \times 110 \times 110 \times 110 \times 110$ $100 \times 100 $
	= 1830125.
	121 x 121 121 121 0x 125 242 +121 24282 14641 1830125

	Date Page 93 Staller
2.	
81?	Present Population of Cattle (P) = 30000. Rate of depletion (R) = 20%. Time (T) = 3yrs.
	Population of Cattle after 3 yrs = $P \times (1 - R)^{T}$
	$=30000 \times \left(1-20\right)^{3}$
	$= 30000 \times \left(100 - 20\right)^{3}.$
	$= 30000 \times \left(\frac{80}{100}\right)^{3}$
2011	= 30066 x 80 x 86 x 86 100 x 100 x 100.
	= 15360.
	× 64 096
.	096 G 144 15360

	16. Surface Area & Volume Date Date Page 97 Staller
1.	
	Exercise 16.1
1.	
a).	120 UT Think I Should Enser 1 1 1 1
817	Surfaces in Fig 16 2 (i) are: WXYZWPBRS, PBXW, RSYZ, QRYX, PSZW.
	RSYZ, QRYX, PSZW.
+ = +	Sacregios to
_1	THE BILL BOOK OF THE STATE OF THE SERVICE OF THE SE
(b)	
817	Twelve edges of the cuboid in Fig 16.2(i) are:
	Twelve edges of the cuboid in Fig 16.2(i) are: wx, xy, yz, zw, PB, BR, RS, PS, Pw, SZ, BX, RX
<u> </u>	
	1EDU 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
()	
&4?	The eight vertices of the cuboid in Fig 16 2(1)
	The eight vertices of the cuboid in Fig 16 2(1) are: w, x, y, Z, P, Q, R, S.
	221 × 221 × 13.81 3 + 691 × 661 × 6

Exercise 16.2.

(i

2017

Here, l = 7cm

b = 4 cm

h = 3 cm.

. TSA of the cuboid = 2x(lb+lh+bh).

= 2 x g (7cm x 4cm) + (7cm x 3cm) + (4cm x 3cm)}

= 2 × {28 cm² + 21 cm² + 12 cm²}

= 2 × 61 cm2

= 122 cm2.

(iv)

Here l = 8 m

B = 4m

h = 2m

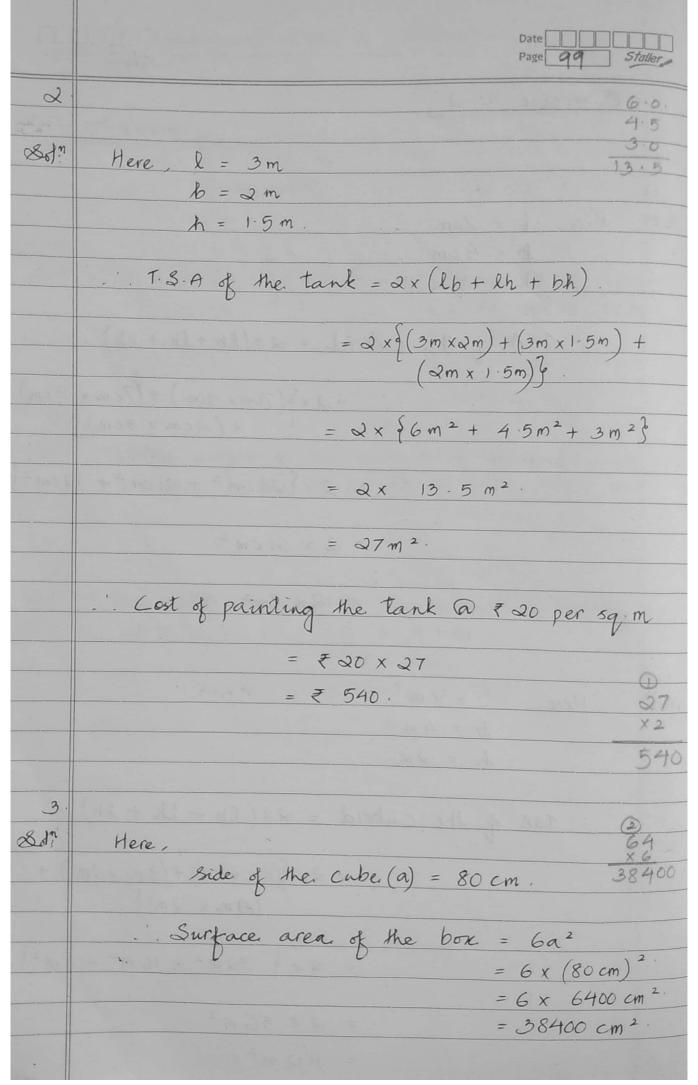
. TSA of the cuboid = 2x(lb+lh+bh)

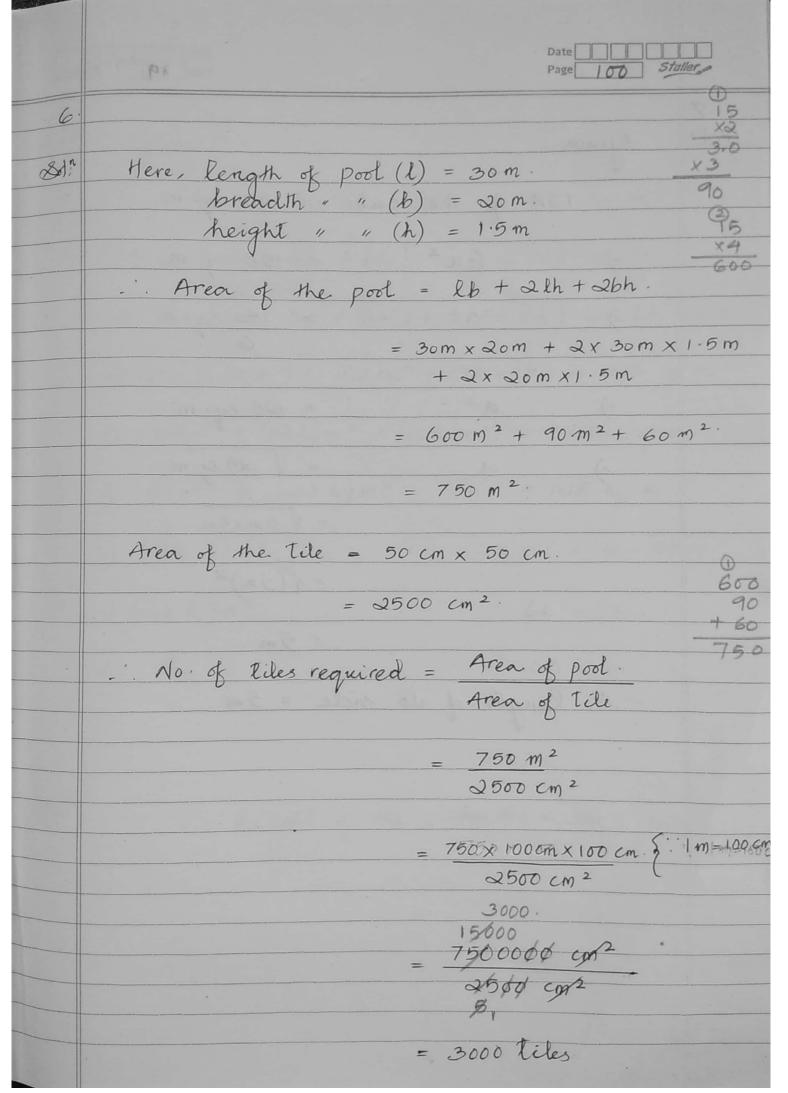
 $=2\times \sqrt{(8m\times 4m)+(8m\times 2m)}+$ $(4m\times 2m).$

 $= 2 \times \left\{ 32m^2 + 16m^2 + 8m^2 \right\}.$

 $= 2 \times 56 \,\mathrm{m}^2$

= 112 m2



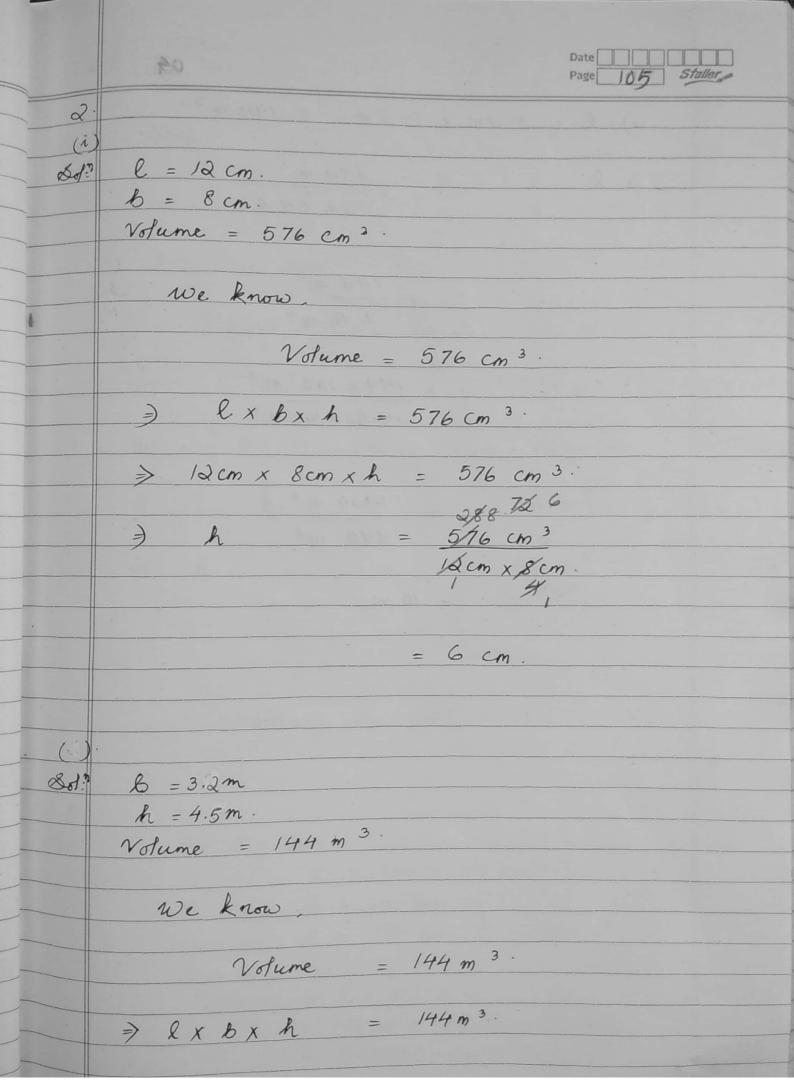


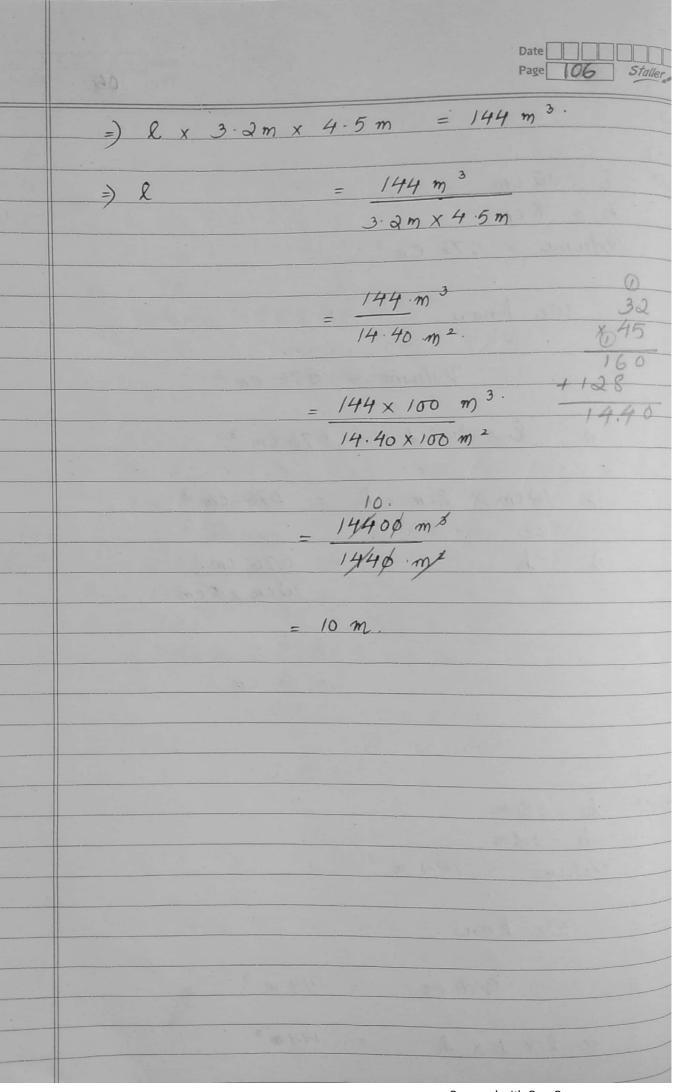
		Date Staller			
7	7.				
Sd!	ginen,				
		Alasa de la companya della companya			
	TSA of the cube =	150 sq. m.			
		July 1844 - Comment			
	$=) \qquad 6a^2 \qquad =$	150 sq. m.			
	$=$ $q^2 =$	25 150 sq. m			
' fn 8-1	Lx mod. x 2 + mod x mod r	6.			
	1 2x 22 to 31 : 5 to				
	$=$ a^2 $=$	25 sq. m.			
- 140	n 00 + + m 00 + + m 000 = 1 - 1 - 1 - 1	, , , , , , , , , , , , , , , , , , ,			
	=) a =	√ 25 sq.m.			
	The state of the s				
	= V	5mx5m.			
	made y made - ale	, and the solidary of the			
		(5m)2			
		m.			
	length of its side = 5m.				
	length of its side = 5m.				
	750 46				
	, bro 2000				
	3 7				
Bunka in	1 6 2 2 2 2 1 X 72 2 1 3 1 3 2 1 7 1 2 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	· ·			

1. Fill in the blanks. (i) 1 litre = $\frac{1000}{\text{cm}^3}$ millilitres = $\frac{1000}{\text{cm}^3}$ cm³ (iii) 10,000 cm³ = $\frac{10}{\text{dm}^3}$ cm³ (v) 5 kilolitres = $\frac{5000}{\text{litres}}$ litres (vi) 10,00,000 cm³ = $\frac{10}{\text{m}^3}$ cm³ (vii) 10,00,000 cm³ = $\frac{10}{\text{m}^3}$ cm³ (viii) 3 m³ = $\frac{3000}{\text{litres}}$ litres

(ix) $\frac{1}{2}$ litre = $\frac{1}{2}$ dm³ = $\frac{500}{}$ m ℓ

		ate
	Exercise 16.4.	age 04 Staller
1.		
(i)		
∞of?		
(20):	$\ell = 6m$	
	b = 3m.	
	h = 4m.	(3)
	Volume = l x b x h.	18
		×4.
	$= 6m \times 3m \times 4m$	72
	$= 72 \text{ m}^3 \cdot (\text{or}) 72 (\text{u} \cdot \text{m})$,
(ii		
81	l = 2.5 m.	
	B = 1.5 m	
	k = 1m	
	· · Volume = l x b x h.	(3)
		<u> </u>
	$= 2.5 \text{m} \times 1.5 \text{m} \times 1 \text{m}$	x 15
	X + 3 m X + m).	125
	= 3.75 m ³ .	+25
	or	3.75
	3.75 Cu·m.	0.70
	o 15 ca.m.	





Date		
Page	108	Stalle

For	the.	small	rectangular	packets
				/

$$= 400 \text{ cm}^3$$

881

Side of the cube (a) = 8 cm.

.. Volume of the cube = a3.

= 8 cm x 8 cm x 8 cm.

= 5/2 cm3.

	dir.	Page O Staller
10		
881ª	Here,	THE RELEASE OF THE PARTY OF THE
	l = 3m. = $3 \times 100 \text{cm}$ (1.1) = 300cm .	
	= 3×100 cm (:.)	m = 100 cm).
	= 300 cm.	15
1000	b = 1.5 m	×3 45 A
	= 1.5 × 100 cm	(3) ×3 (3) 13,5000
	= 150 cm.	
	h = 3 cm	945000
	The second secon	
	Volume of the metal piece	$= l \times b \times h$
		= 300 cm x 150 cm
	. Stranger Stranger and Alle.	x 3cm
	11xm apr 19 alia	= 135000 Eu em
	· Meight of the metal piece	- 7 x 135000 a
	. weight of the metal piece	= 945000 a
	THE PART OF THE PARTY OF THE PA	
	Timbra 18/18	
	NV (**	

		Date Page II Q	Staller
۵.			
882	Here, d = 7m.	S 7m	7
	then, $r = \frac{7}{2}m$		32
	h = 9 m.	v and	×9 198
	L.S.A of the oil tank = $2\pi rh$.		
	=	1 mx	9m.
	$= 198 \mathrm{m}^2$	-	
	.'. Cost of painting @ ₹ 35 per sq = ₹ 35 × 198.	. m .	99
	= ₹ 6930		X 35
	dr BR = Jima Autoja	real r	1594
			6930
	Carrier Carrier		
	1966		
	Lident Greens and Phi on	Wat &	

		Date Staller
		113
4		
Sd:"	Here, d = 4m	
	then, $r = d$	
	$=\frac{4}{8}m$	0
	Ø,	314
	= 2m.	×4
		125.60
	h = 10m.	
	. Sty of earth taken out = πr²h.	
	= 22	x 2m x 2m x 10 m.
	7	*
	- 3.1	4 x 40 m 3.
	= 12	5.6 m ³
	C.S.A of the well =	2 Toch Allian
	C.S.A of the well =	arh.
		x 3.14 x 2m x 10 m
		25.6 m ²
	: Cost of plastering the c	urved surface
	Cost of plastering the C	125.6
	= ₹ 628	3.
-		
1		

Date Page 4 Staller
Here,
riere,
Volume of 1 m iron rod = 1386 cu. cm
Tr2h = 1386 cu. cm.
=> 22 x r ² x 100 cm = 1386 Cu · cm ·
$7 Y^2 = \frac{13/86 \times 7}{200} sq.cm.$
$= \frac{441}{100} \text{ sq. cm.}$
$r = \sqrt{\frac{441}{100}} \text{ sq. cm.} \qquad \frac{441}{2 441}$
$=\sqrt{\frac{21}{10}} \operatorname{sg/cm} \qquad \frac{41}{41}$
= 21
= 2.1 cm.
$2 \times 2 \cdot 1 cm$

Ss."

Here,

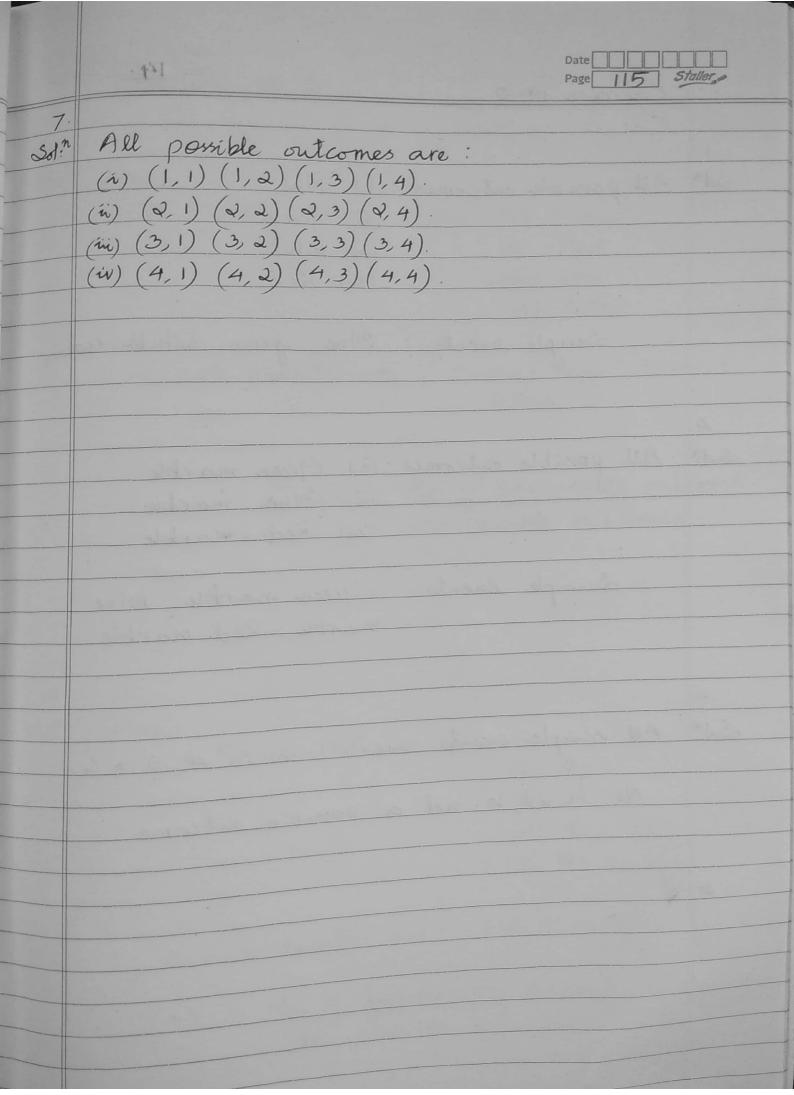
> r2

> r2

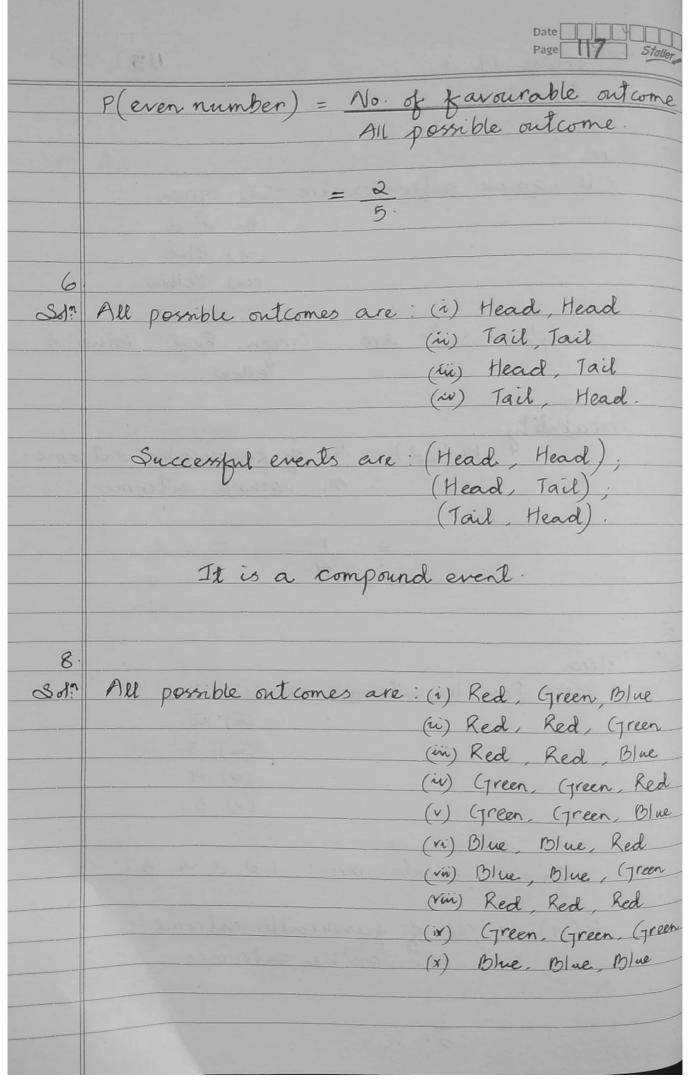
: diameter =

= 4.2 cm.

	19. Probability. Date Page 14. Staller
	Exercise 19.1
1 Sd.**	All possible outcomes are: (i) Head (ii) Tail
817	All possible outcomes are: (i) 1 (ii) 2 (iii) 4 (iv) 6
3.	All possible outcomes are: (i) Red ball (ii) White ball.
4. Sd.	All possible outcomes are: (i) Red ball (ii) Green ball (iii) Blue ball.
5. Sd.	All possible outcomes are: (i) 1 (ii) 3 (iii) 5. (iii) 6.
Sdin	All possible outcomes are: (i) A (ii) B. (iii) C. (iv) D.



	Exercise 19.3. Date Page 116 Staller			
1.				
Spin	Itere,			
Gro,	All Possible outcomes are: (i) Green			
	(ii) Red			
	(iii) blue			
	(iv) Yellow.			
	Shout Line to the same that the same that the			
	Simple events are: Green, Red, Blue +			
	Yellow.			
	Grande Charles and the contract of the contrac			
	P(Red) = No. of favourable outcome. All possible outcomes.			
	All possible outcomes.			
	The state of the s			
	$=\frac{1}{4}.$			
	4.			
2.				
Sol?	Here,			
	All Possible outcomes are: (i) 1			
	(\tilde{n}) Q .			
	(iii) 3.			
	(iv) 4.			
	(v) 5.			
	Simple events are: 1, 2, 3, 4, 5. $P(4) = No. of favourable outcome.$ All possible outcomes.			
	AIL possible outcomes.			
	= 1			
	5.			



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Successful events are: (R.	and Red Red).
order of the	ea, rea, reit,
	Treen, (freen (freen).
(0	blue, Blue, Blue).