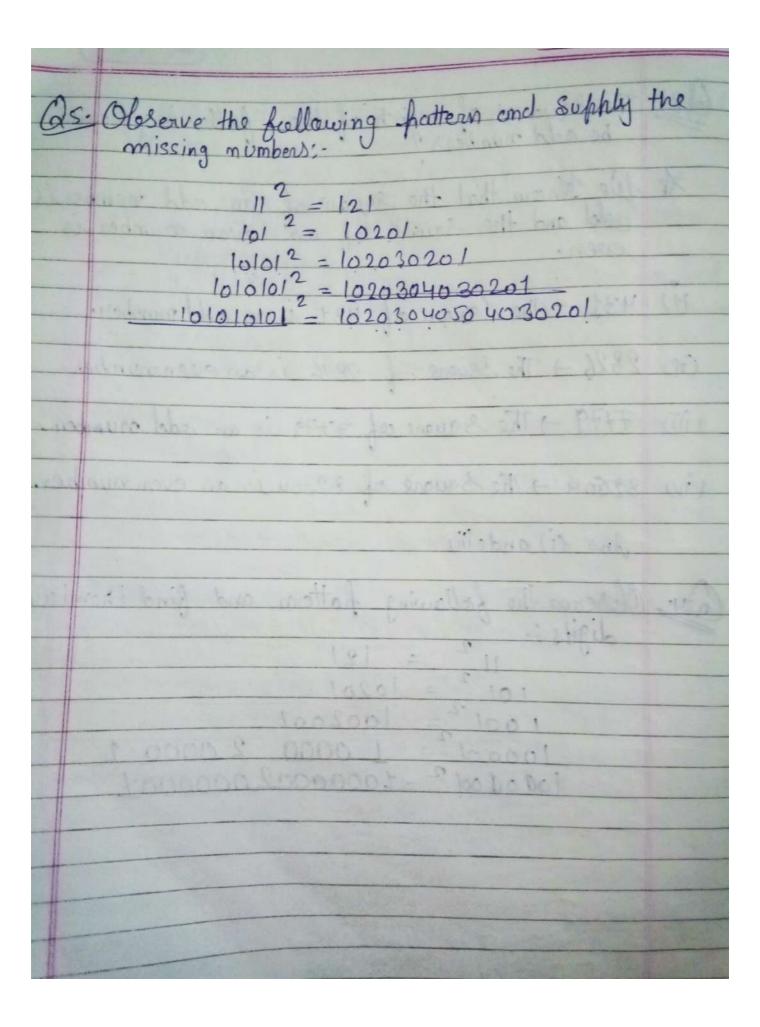
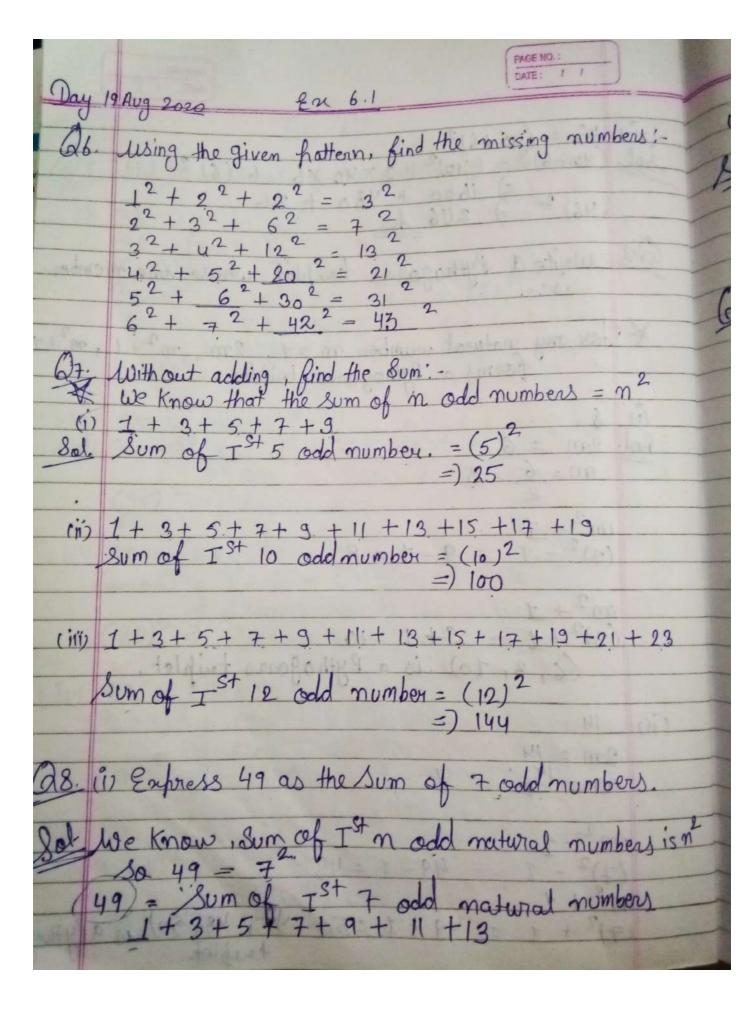
PAGE NO : Day - 18 Aug 2020 Chapter 6 Squares and Square mosts fr - 6.1 Q1. What will be the unit digit of the squares of the (i) 81 \* We know that if a number has its unit's splace digit as a, then its square will end with the unit digit of the multiplication axa. (1) 81 Since the given number has its unit's place digitar 1, its square will ends with the unit digit of the multiplication = IXI (11) 272 Since the given number has its unit I place digit as 2. its square will end with the unit digit of the multipli action = 2×2 = 4. Since the given number has its unit & place digitary g, its square will end with the unit digital the multiplication = 9x9 = 81 lns 1. 3853 Since the given number has its unit's place digit as the multiplication = 3 x3 = 9.

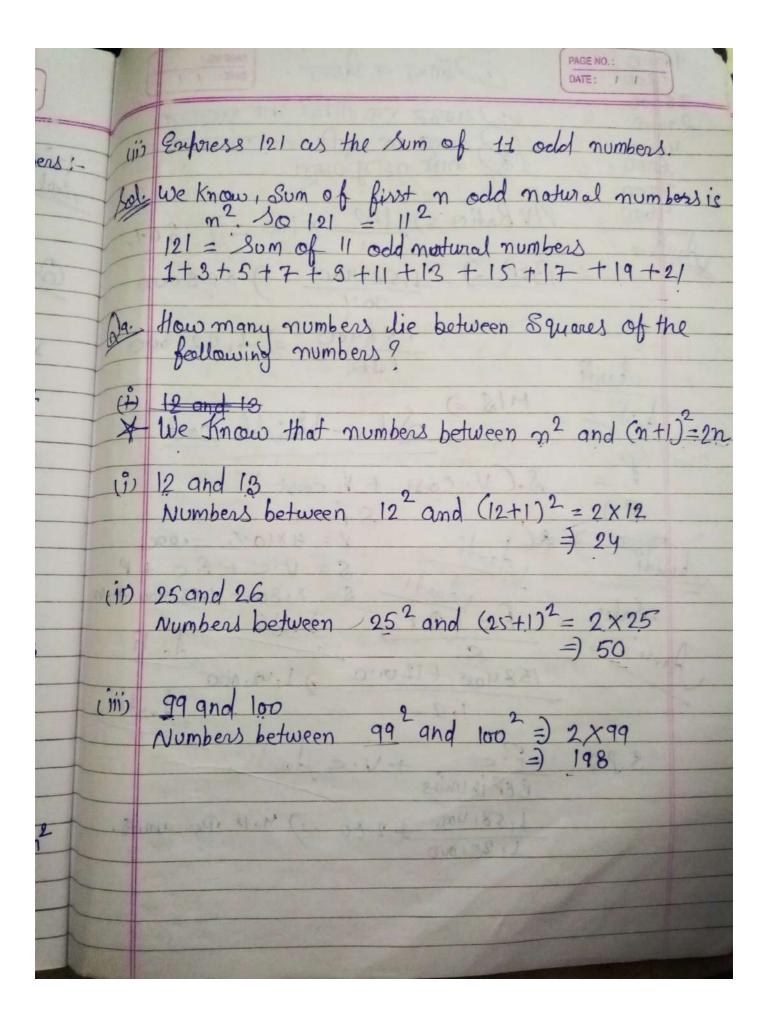
1234 Since the given number has its unit is place digit of the multiplication = 4 xy = 16 = 6 Ans W 26387 Since the given number has its unit's place digit as 7, its square will ends with the unit digit of the multiplication = 7x7 = 49 = 9 Ans. (Vii) 52698 Since the given number has its unit 13 place digit of the multiplication = 8x8 = 64 = 4 Aus Viji) 99880 Since the given number has its unit's place digit as 0, its square will end with the unit digit of the multiplication = 0x0 = 0 As (ix) 12796 Since the given number has its wnit's place digit as 6, its square will end with the unit digit of the multiplication = 6x6 = 36 = 6 Ans (X) 55555 Since the given number has its unit is place dig as 5, its square will end with the unit digit of the multiplication = 5x5 = 25 = 5 As

DATE: / / Q2. The following numbers are obviously not herfect squares invers neason. Perfect square no. 1, 4, 9, 6, 5, 1 [0, 2, 3, 7, 8- Not per fect square no. -1) 1057 ends with 7 at unit place so it is mot a therfect square number. (ii) 23453 ends with 3 at unit place. So it is not a herfect square number. (iii) 7928 ends with 8 at unit place. So it is not 9 herfect square number. in 2,22,222 ends with 2 at unit place. So it is not a perfect square number. w 64000 ends with 3 700 Zeros. Soit cannot ferfect square number. vi) 89722 ends with 2 at unit place. So it is not a perfect square number. vii) 22000 ends with 3 zerois. So it cannot a herfect 8 quare number. iii) 50 5050 ends with I Zeros. So it is not a herfect square number.

DATE: / / as The squares of which of the following would be odd numbers? It We Know that the square of an odd number is add and the square of an even number is even. 431 - The Square of 431 is an odd number. 2826 - The Square cef 2826 is an even number. (iii) 7779 - The square cof 7779 is an odd number. (iv) 82004 - The Square of 82004 is an even number. Ans (i) and ciii Dy Observe the following fattern and find thomissing digits: 100000020000000







```
Ex-6.2
            Q1. Find the squares of the feellowing numbers:
              (ii) 35 = (30+5)^2

(30+5)<sup>2</sup> = (30)^2 + 2 \times 30 \times 5 + (5)^2

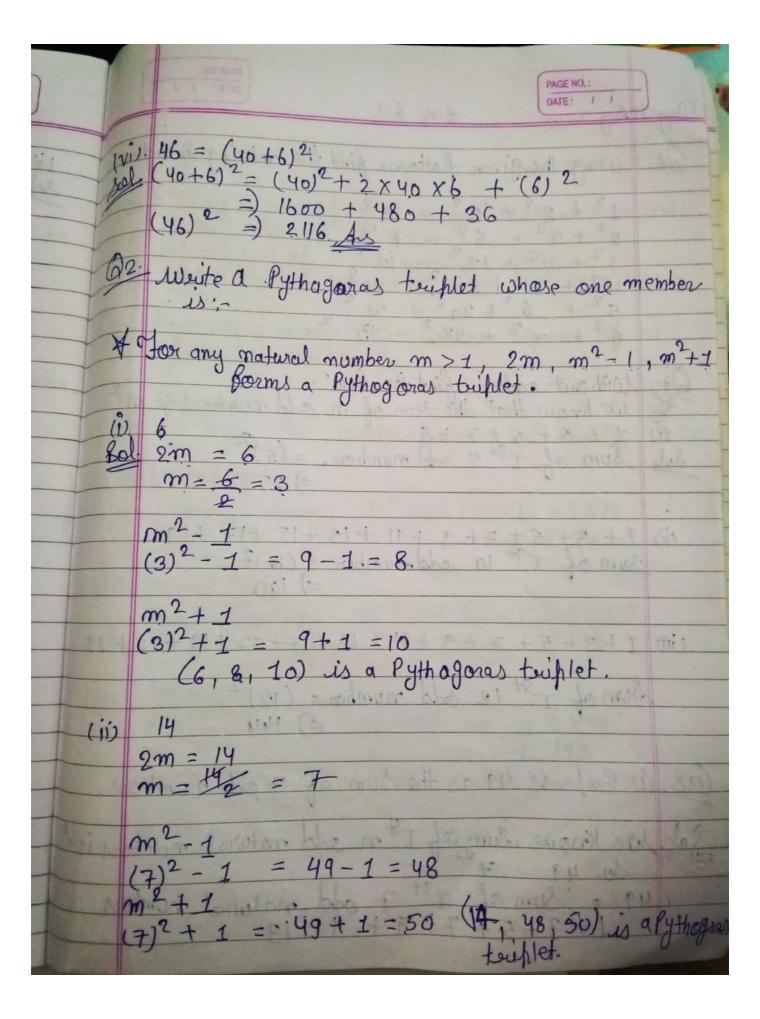
=) 900 + 300 + 25

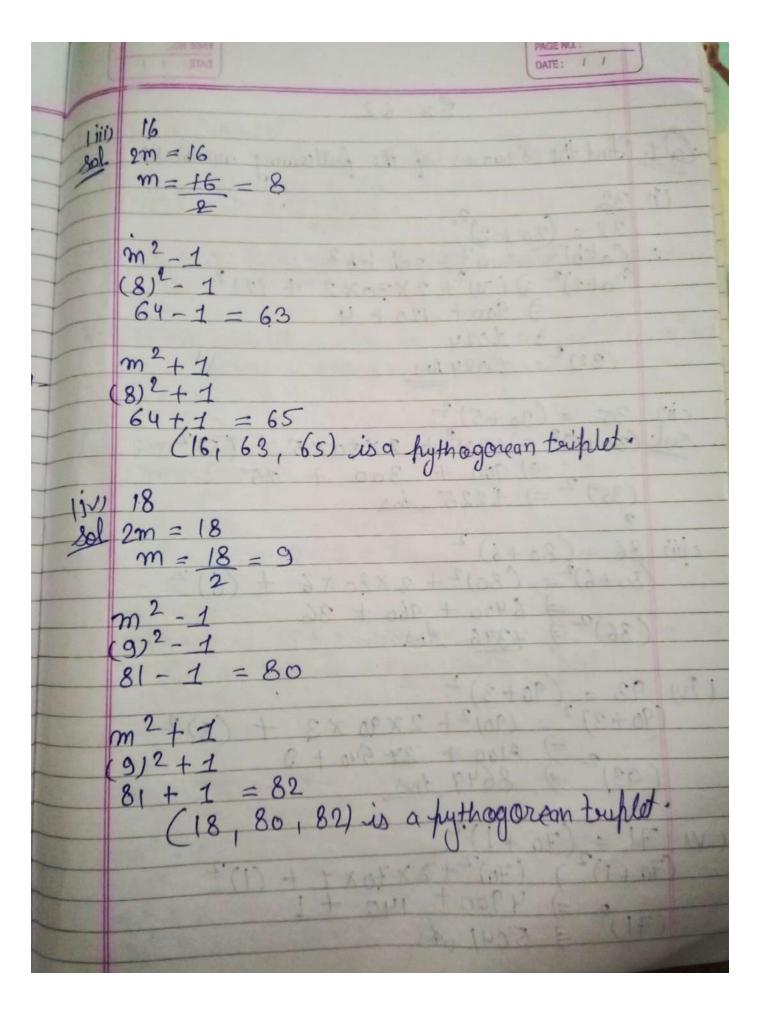
(35)<sup>2</sup> =) 1225 Aus
          (iii) 86 = (80+6)^2

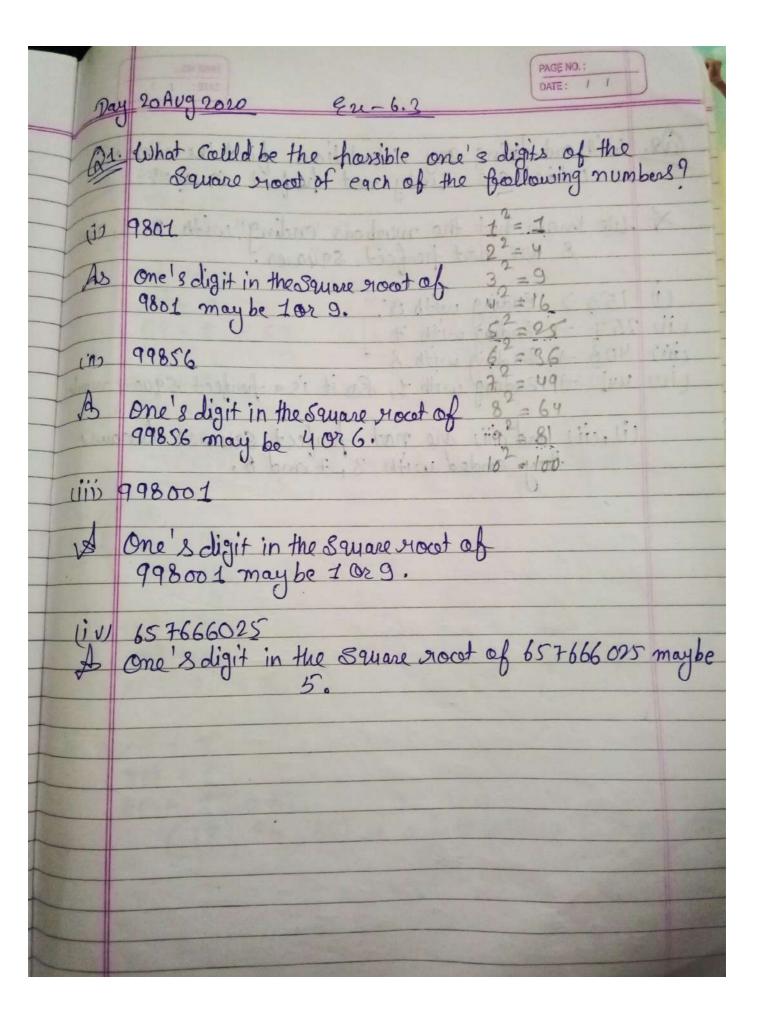
(80+6)^2 = (80)^2 + 2 \times 80 \times 6 + (6)^2

(86)^2 = 6400 + 960 + 36

(86)^2 = 7396 Ans.
(iv) 93 = (90+3)^{2}
(90+3)^{2} = (90)^{2} + 2 \times 90 \times 3 + (3)^{2}
(93)^{2} = 8649 \text{ Jns.}
      W = (70+1)^{2}
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(70)^{2} = (70)^{2} + 2 \times 70 \times 1 + (1)^{2}
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62. With out doing my calculation, find the numbers which are surly not herfect squares. \* We know that the numbers ending with 2,3,702 8 are not perfect squares. 153 > Ending with 3. (ii) 257 -> Ending with 7 (iii) 408 -) Ending with 8

(iv) 441 -) Ending with 1, So it is a perfect 5 quare number.

(i), (ii) and (iii) are not perfect squares because they ended with 3, 7 and 8. Ex 6.3 Class 8 Maths Question 3.

Find the square roots of 100 and 169 by the method of repeated subtraction.

# Solution:

Using the method of repeated subtraction of consecutive odd numbers, we have

(i) 
$$100 - 1 = 99$$
,  $99 - 3 = 96$ ,  $96 - 5 = 91$ ,  $91 - 7 = 84$ ,  $84 - 9 = 75$ ,  $75 - 11 = 64$ ,  $64 - 13 = 51$ ,  $51 - 15 = 36$ ,  $36 - 17 = 19$ ,  $19 - 19 = 0$  (Ten times repetition)

Thus √100 = 10

(ii) 
$$169 - 1 = 168$$
,  $168 - 3 = 165$ ,  $165 - 5 = 160$ ,  $160 - 7 = 153$ ,  $153 - 9 = 144$ ,  $144 - 11 = 133$ ,  $133 - 13 = 120$ ,  $120 - 15 = 105$ ,  $105 - 17 = 88$ ,  $88 - 19 = 69$ ,  $69 - 21 = 48$ ,  $48 - 23 = 25$ ,  $25 - 25 = 0$  (Thirteen times repetition)

Thus  $\sqrt{1}69 = 13$ 

# Ex 6.3 Class 8 Maths Question 4.

Find the square roots of the following numbers by the Prime Factorisation Method:

- (i) 729
- (ii) 400
- (iii) 1764
- (iv) 4096
- (v) 7744
- (vi) 9604
- (vii) 6929
- (viii) 9216
- (ix) 529
- (x) 8100

# Solution:

(i) By prime factorisation, we get
$$729 = 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$$

$$\therefore \sqrt{729} = 3 \times 3 \times 3$$

$$= 27$$

3	729
3	243
3	81
3	27
3	9
3	3
	1

(ii) By prime factorisation, we get
$$400 = 2 \times 2 \times 2 \times 2 \times 5 \times 5$$

$$\therefore \sqrt{400} = 2 \times 2 \times 5$$

$$= 20$$

2	400
2	200
2	100
2	50
5	25
5	5
	1

(iii) By prime factorisation, we get
$$1764 = 2 \times 2 \times 3 \times 3 \times 7 \times 7$$

$$\therefore \sqrt{1764} = 2 \times 3 \times 7$$

$$= 42$$

(v) By prime factorisation, we get 
$$7744 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 11 \times 11$$

$$\therefore \sqrt{7744} = 2 \times 2 \times 2 \times 11$$

$$= 88$$

2	7744
2	3872
2	1936
2	968
2	484
2	242
11	121
11	11
	1

(vi) By prime factorisation, we get
$$9604 = 2 \times 2 \times 7 \times 7 \times 7 \times 7$$

$$\therefore \sqrt{9604} = 2 \times 7 \times 7$$

$$= 98$$

(vii) By prime factorisation, we get
$$\frac{5929 = 7 \times 7 \times 11 \times 11}{\sqrt{5929} = 7 \times 11}$$

$$= 77$$

(viii) By prime factorisation, we get
$$9216 = \underbrace{2 \times 2}_{3} \times \underbrace{2 \times 2}_{4} \times \underbrace{2$$

(ix) By prime factorisation, we get
$$\frac{529}{529} = \frac{23 \times 23}{23}$$

$$\therefore \sqrt{529} = 23$$

(x) By prime factorisation, we get
$$8100 = 2 \times 2 \times 3 \times 3 \times 3 \times 5 \times 5$$

$$\therefore \sqrt{8100} = 2 \times 3 \times 3 \times 5$$

$$= 90$$

2	8100
2	4050
3	2025
3	675
3	225
3	75
5	25
5	5
	1

# Ex 6.3 Class 8 Maths Question 5.

For each of the following numbers, find the smallest whole number by which it should be multiplied so as to get a perfect square number. Also find the square root of the square number so obtained.

- (i) 252
- (ii) 180
- (iii) 1008
- (iv) 2028
- **(v)** 1458
- (vi) 768

#### Solution:

(i) By prime factorisation, we get	2	252
$252 = \underline{2 \times 2} \times \underline{3 \times 3} \times 7$	2	126
It is clear that in order to get a perfect square, one more 7 is	3	63
required.	3	21
So, the given number should be multiplied by 7 to make the product a perfect square.	7	7
$\therefore$ 252 × 7 = 1764 is a perfect square.	9	1
Thus, $1764 = 2 \times 2 \times 3 \times 3 \times 7 \times 7$		
$\therefore \qquad \sqrt{1764} = 2 \times 3 \times 7 = 42$		
The second secon		

(ii) By prime factorisation, we get 180  $180 = 2 \times 2 \times 3 \times 3 \times 5$ It is clear that in order to get a perfect square, one more 5 is 45 required. 15 So, the given number should be multiplied by 5 to make the  $\frac{3}{2}$ 5 product a perfect square.  $180 \times 5 = 900$  is a perfect square.  $900 = 2 \times 2 \times 3 \times 3 \times 5 \times 5$ Thus,

 $\sqrt{900} = 2 \times 3 \times 5 = 30$ 

(iii)	By prime factorisation, we get	.	1008
	$1008 = 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 7$	-	504
	It is clear that in order to get a perfect square, one more / is	_	252
			126
	So, the given number should be multiplied by 7 to make the $\frac{2}{3}$	1	63
	product a period square.		21
	Tooday your in a period of		7
	Thus, $7000 - 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 7 \times 7 \times 7$	+	1
	$\therefore \qquad \sqrt{7056} = 2 \times 2 \times 3 \times 7$	ŀ	
	= 84		
(iv)	By prime factorisation, we get	۱ ،	2020
	$2028 = 2 \times 2 \times 3 \times 13 \times 13$	2	2028
	It is clear that in order to get a perfect square, one more 3 is -	2	1014
	required.	3	507
	So, the given number should be multiplied by 3 to make the $\frac{1}{3}$	3	169
	product a perfect square.	3	13
	∴ 2028 × 3 = 6084	- 1	1
15	Thus, $\underline{6084} = \underline{2 \times 2} \times \underline{3 \times 3} \times \underline{13 \times 13}$		
	$\therefore \qquad \sqrt{6084} = 2 \times 3 \times 13 = 78$		
(v)	By prime factorisation, we get	. 1	1458
	$1458 = 2 \times 3 \times$	+	
	It is clear that in order to get a perfect square, one more 2 is	+	729
		3	243
	So, the given number should be multiplied by 2 to make the	:+	81
	product a perfect square.	4	27
	1100 × 2 - 2/10	3	9
	Thus, $\underline{2916} = \underline{2 \times 2} \times \underline{3 \times 3} \times \underline{3 \times 3} \times \underline{3 \times 3} \times \underline{3 \times 3}$	4	
	$\therefore \qquad \sqrt{2916} = 2 \times 3 \times 3 \times 3$	Į	1
	= 54		
(vi)	By prime factorisation, we get	2	768
	$768 = 2 \times 3$	2	384
	It is also that is and the second of the sec	2	192
	required	2	96
	So, the given number should be multiplied by 3 to make the "	2	48
	product a perfect square.	2	24
	∴ 768 × 3 = 2304	2	
	Thus, $\underline{2304} = \underline{2 \times 2} \times \underline{2 \times 2} \times \underline{2 \times 2} \times \underline{2 \times 2} \times \underline{3 \times 3}$	4	- 12
	$\therefore \qquad \sqrt{2304} = 2 \times 2 \times 2 \times 2 \times 3$	4	0
	. = 48	3	12 6 3 1
	2 1 0	-	1
	\\2504 - 2 \\2 \\2 \\2 \\3	2 2 2 3	

# Ex 6.3 Class 8 Maths Question 6.

For each of the following numbers. find the smallest whole number by which it should be divided so as to get a perfect square. Also find the square root of the square number so obtained.

- **(i)** 252
- (ii) 2925
- (iii) 396
- (iv) 2645
- (v) 2800
- **(vi)** 1620

#### Solution:

(i) By prime factorisation, we get 
$$252 = 2 \times 2 \times 3 \times 3 \times 7$$
Since the factor 7 cannot be paired.
$$\therefore \text{ The given number should be divided by 7.}$$

$$\therefore \frac{252}{7} = \frac{2 \times 2 \times 3 \times 3 \times 7}{7}$$

$$= 2 \times 2 \times 3 \times 3$$

$$= 36 \text{ is a perfect square}$$
and, 
$$\sqrt{36} = \sqrt{2 \times 2 \times 3 \times 3}$$

$$= 2 \times 3 = 6$$

(ii) By prime factorisation, we get 
$$2925 = 3 \times 3 \times 5 \times 5 \times 13$$
Since the prime factor 13 cannot be paired.
$$\therefore \text{ The given number should be divided by 13.}$$

$$\therefore \frac{2925}{13} = \frac{3 \times 3 \times 5 \times 5 \times 13}{13}$$

$$= \frac{3 \times 3 \times 5 \times 5}{13}$$

$$= \frac{3 \times 3 \times 5}{13}$$

$$= \frac{3 \times 3}{13}$$

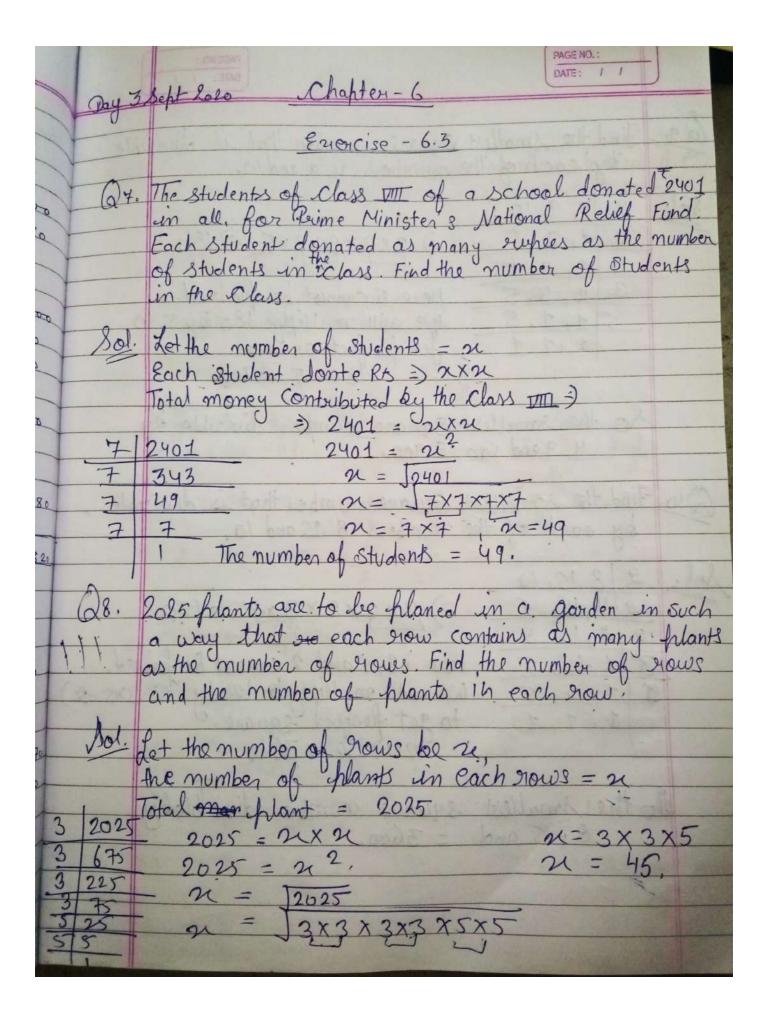
$$= \frac{3 \times 3}{13}$$

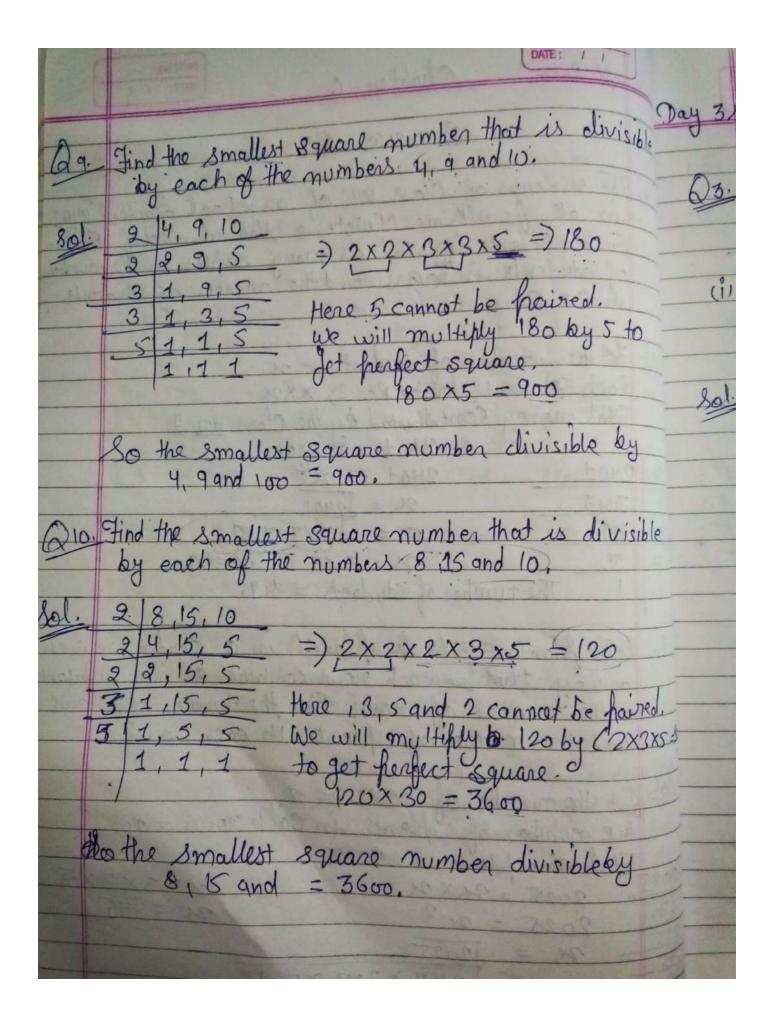
$$= \frac{3 \times 3}{13}$$

(iii)	By prime factorisation, we get $396 = 2 \times 2 \times 3 \times 3 \times 11$ Since the prime factor 11 cannot be paired. $\therefore$ The given number should be divided by 11.	Ì	2 2 3 3	396 198 99 33
	$\frac{396}{11} = \frac{2 \times 2 \times 3 \times 3 \times 11}{11}$ $= 2 \times 2 \times 3 \times 3$ $= 36 \text{ is a perfect square}$ and $\sqrt{36} = \sqrt{2 \times 2 \times 3 \times 3} = 2 \times 3 = 6$		11	11
(iv)	By prime factorisation, we get $2645 = 5 \times 23 \times 23$ Since the prime factor 5 cannot be paired. $\therefore$ The given number should be divided by 5. $\therefore \frac{2645}{5} = \frac{5 \times 23 \times 23}{5}$ $= 23 \times 23 = 529$ is a perfect square and, $\sqrt{529} = \sqrt{23 \times 23} = 23$		5 23 23	2645 529 23 1
(v)	By prime factorisation, we get $2800 = 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 7$ Since the prime factor 7 cannot be paired. $\therefore \text{ The given number should be divided by 7.}$ $2800  2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 7$		2 2 2 2	2800 1400 700 350

(v) By prin	By prime f		tion, we get	2	2800
	o: 1		$= 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 7$	2	1400
			actor 7 cannot be paired.	2	700
	The give	2800	ber should be divided by 7. $2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 7$	2	350
	·	7	=	5	175
		′ .	$= 2 \times 2 \times 2 \times 2 \times 5 \times 5$	5	35
			= 400 is a perfect square	7	7
	and,		$= \sqrt{2 \times 2 \times 2 \times 2 \times 5 \times 5} = 2 \times 2 \times 5 = 20$		1

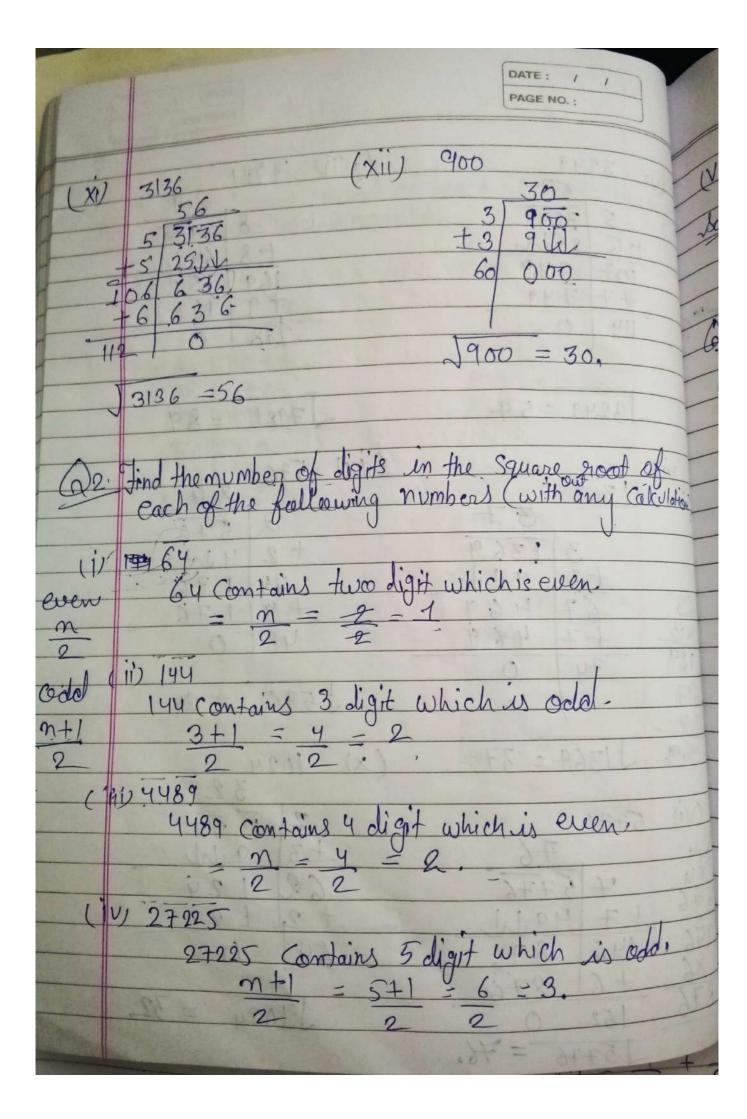
(vi)	By prime factorisation, we get	2	1620
	$1620 = 2 \times 2 \times 3 \times 3 \times 3 \times 5$	2	810
	Since the prime factor 5 cannot be paired.  The given number should be divided by 5	3	405
	The given number should be divided by 5. 1620 2 × 2 × 3 × 3 × 3 × 3 × 5	3	135
	÷ 5 5	3	45
	$= 2 \times 2 \times 3 \times 3 \times 3 \times 3$	3	15
	= 324 is a perfect square	_5	5
	and, $\sqrt{324} = \sqrt{2 \times 2 \times 3 \times 3 \times 3 \times 3}$	3	1
	$=2\times3\times3=18$		





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A 21:	Find the Square grown of each of the feellowing mumbers by Division method.	A)
	(10%) 3481	
(1)	7309 48	
Sol	+4 164 +5 2514	
00	88 704 109 981 +8 704 +9 981	
82 x2	96 0 118	-
688	J2304 = 48. J3481 = 59.	-
- x8 - 704		
- (ii)	4489 (iv) -529 23	60
	6 4489 +6 36 W +2 4 W	XI
123 - X3	127 889 43 129	6 ×
1369	+7 889 +3 129 134 0 46 0	10/
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889	$\int 4489 = 67.$ $\int 529 = 25$	4
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	576 $24$ $2576$ $+24$ $44176$ $+4176$ $480$ $576 = 24$ $1024$ $32$
5776 7 5776 7 5776 146 876 152 0 15776 = 76.	3 1024 +3 9 W 62 124 +2 124 64 0



	PAGE NO.:
	390625
	390625 Contains 6 digit which is even.
	$\frac{n}{2} = \frac{6}{3} = \frac{300}{2} \text{ which is even.}$
	Find the square root of the following decimal numbers:
	(11) 7.29
	1 2.56 2.7
28	26 156 47 3 29
culation)	+6 156 +1 329
	32 0 54 0
(3	2.56 = 1.6
Par	(iv) 51.84 (iv) 42.25 (V) 31.36
E)	7.2 6.5 5.6
1000	+7 49 W + 6 36 h +5 25 h
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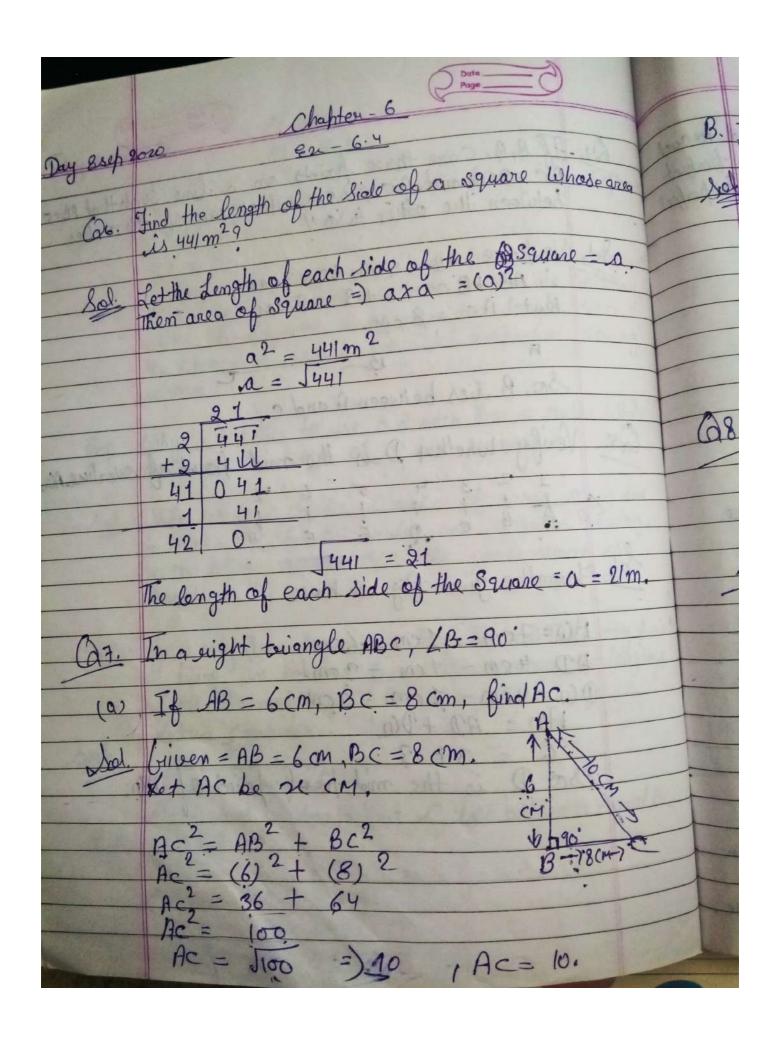
	chapter-6 PAGE NO.:
Day	sept rovo Chapter-6
1	
Q4	Find the least number which must be subtracted
1	from each of the following numbers so as to get
A LOUAL	from each of the following numbers so as to get a herfect square. Also find the square root of the perfect square
	the parfect square for the forestiere
-	So obtained.
(i)	402
(0)	2
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	+2 4/4
	4 1002, Wemust Suletract 2 from 402to I
	Jet a herfect squard. New number = 402-2=400
	New number = 402-2=400
	20
	1 9 400
-	+2/4/il
	40 000
	400 = 20.
cita	1989 44
(11)	114
	4 19.89 + 4 1.936 + 4 16.W
	LUBIT
	84 389 +4 336
	4 336 88 0
	20 50
	71430
	1 Sulatracio Ca D 1020 Light a la lect
u	emust subject 53 from 1784 to get a grague
	Square 1920 C2 - 1920
	Demust Subtract 53 from 1989 to get a perfect Square. New number = 1989 - 53 = 1936

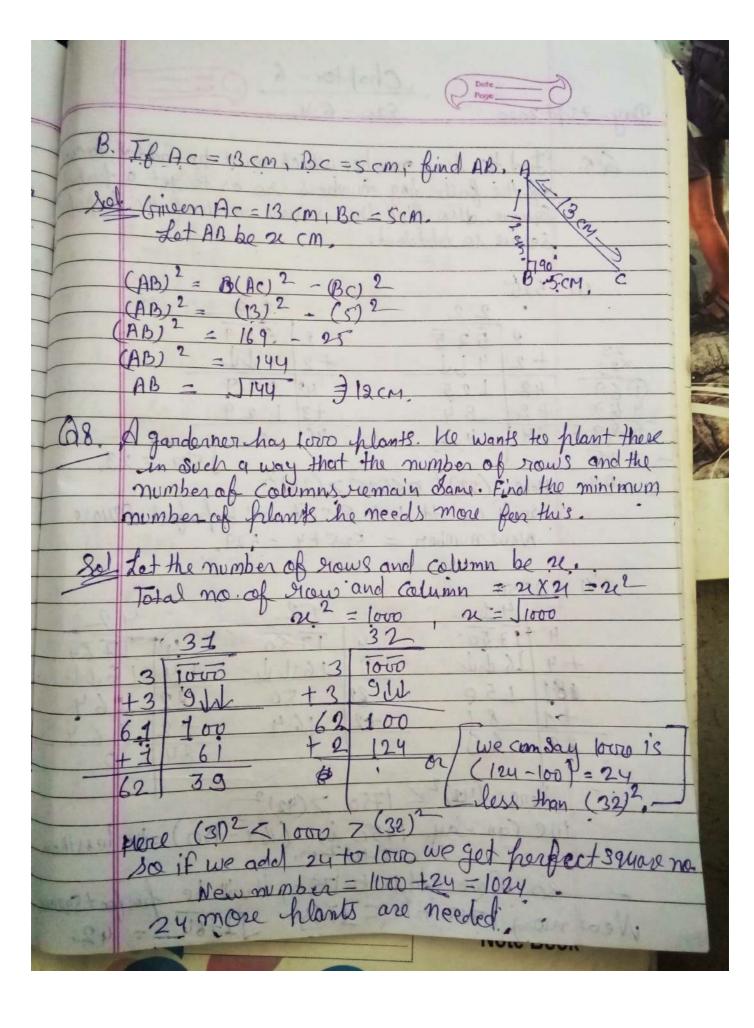
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	13	249 = 5	7.	
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Squan	New number -	3250 -	1 - 1249	
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+8384	+8	384		14-14
56 41	561	0		
70 11	17	34 =	28,	
600 and 1				0 1
at must	Subtract 41 fro New number =	m 805 t	o get a pery	gect
Square	New number -	025 -	41 = 784	
(V) 40152	6	63 3869		
4000	1/	3614		
A TO	123	369		
16 4000	+ 1	369		
76 36 M		0		
12 400	126	0		
+3 369		3969 =	126	THE LONG
126 31		10	001	And
we must s	letract 31 from New number =	1 YOUD !	Jer & her	tect
Savare	. New number =	4000	31 - 3969	1

£22 - 6.4	111
25. Find the least number which must be added to each a first a freshet	(11
of 1 the least number which must to get a freel 1	//
25. Find the seeming numbers so as to the B had	/
of the flind the square story of the perfect	/
25. Find the least number which must be added to each of the feellewing numbers so as to get a perfect square solls find the square scot of the p perfect square so obtained.	3
Squa 30	16
ů 525 23	X16
. 22	Va q
2525 2511	16
3 +2 4 1 1 +2 4 10	05
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x +2 8 4 +3 1 2 9	1
9 - 44 41 46 0	-
5 9 99 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
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80 14 1118 add 4 70 56) 11 Will be wife	-
New number = 525+4 = 529,	-
The ad years than closen During all flagrangers at tall all	100000
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4 17750 4 17750 41 1764	X
+4 16 101 +4 16111 +4 1611	
181 150 82 150 82 164	17
1 2 1 4 4 7 1 1 4	18
72 6	18
84 6	-
6.012 ( 1-0 )	
Here (42) - < 1750 7 (42) 2	
We can say 1750 is (164-150)=14 less #10	an
0 (42)2	1
No if we add 14 to 1750, it will be perfect 591	de
New no - 1. 750 + 14 = 1764 TITLU = 42.	
- 1764 1176U 3 9A	-

1	Poge
1	150
aii	15.
	1252 1 256
-	1 1 1 1 26 1 56
3	25 1 5 2 + 6 1 5 6
×16	30 27 32 0
96	
16 X-	Here (15)2 < 252 > (16)2
256	So if we add 4 to 252 to it will be herest square.
752	New number = 252+4 = 256.
	$\sqrt{256} = 16.$
1	J X56 3 16.
(3.1/1	1825
(10)	42
1	4 1825 4 1849
43	+ 4 161 + 4 1611 00 025 83 249
243	B2 225 +2 162 +3 249
129 112x	84 13 86 0
1849	
18 25	Here (42)2 L 1825 7 (43)2
24	800 1 dl 1 1000 1 11 1 1 1 1 1
	we all 24 to 10's, IT WIll be perfect
	So if we add 24 to 1825, it will be herfect  Square number  New number =) 1825+24 =) 1849
	$\sqrt{1849} = 43.$

-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	. 01
(V)	6412
	8/64/2 + 8/64/
	+86411 161 161
-	160 0 120 +1 161
-81	162 0
X81	Here (80)2 <6412 ×(81)2
081	
648 X	, so if we add 6412+149, it will be freshed
-6561	Source
0149	New number = 6561
	6561 = 81
	PM 8   29   28   2 MA
	1 184 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	112x 1 24 (3 6 6 6





There are soo children in a School for a there are soo throws in such a manner that drill they have to stand in such a manner that the number of the number of the number of stows is equal to number of columns. How many children would be left out in this arrangement. Let the number of nows and column be = 21. Total number of now and column children would be left out in the arrang - ment.