## **Squares And Square Roots Ex 3.1**

|      | EXERCISE -3-1  |
|------|--|
| Ŷ    | which of the following numbers are perfect                           |
|      | Squares?   |
| (1)  | 480  |
|      | Resolving usu into prime factors, we get 2/184                       |
|      | 484 = 2 × 2 × 11 × 11  |
|      | Now grouping the factors into pairs of "                             |
|      | equal factors, we get.   |
|      | usu: (2x2)x(1x1)) we observe that all are paired, so                 |
|      | how is a perfect square.   |
| ,    |  |
| ٥    | Resolving 625 into Prime factors, we get \$\footnote{25}             |
|      | 625 = 5×5×5×5  |
|      | Now grouping the factors into pairs of 5                             |
|      | equal factors, we get  |
|      | 625 2 (FRE) X (HAII) we paired, so                                   |
|      |  |
| ,    | 625 is a perfect square  |
| (11) | 576  |
|      | Resolving 57% into prime factors, we get 2576                        |
|      | 376= 242x2x2x2x2x2x3x3   |
|      | Now grouping the factors into pairs 2/36<br>of equal factors, we get |
|      | of equal factors, we get   |

576 = (x2) x (2x2) x (2x2) x (3x3) observe that all are paired, so perfect square. 576 19 941 Resolving qui into prime factors, we get As qui itself a prime number It does not have a peaked squal 961 Resolving 961 into Prime factors, we get. 31 (961 961 = (31×31) =312 : 961 is a perfect square. VI) 2500 prime factors, we Resolving 2500 into 5 100 5(20 2500 = 5x5x5x5x2x2. Now grouping the factors into pairs of- equal factors, we get. 2500 = (5×5)× (\$\$\$5) × (2×2) we observe that all are paired, so

2500 is a perfect square.

( Showthat each number is a perfect square. Also, And the number whose square is given number.

1156

Resolving 1156 into prime factors, we get.

1156 = 2x2 x17x17.

Now, grouping factors into pairs of coul factors, we get.

1156= (2x2) x (19x13)

As all factors are paired, 1156 is a perfect year Again, 1156= (2x19)x(2x19)

~ 34x34 =342

This, 1156 is the square of su.

@ 2025

Resolving 2025 into poince factors, use get 1/2025 2025 = 5×5×3×3×3×3

Now, grouping factors into pairs of equal factor, 3 we get

2015 = (5x5) x (3+3) x (3+3)

As all factors are paired, 2025 is a perket sem Again, 2025 = (3x \$x5) x (3x3x5)

= us2.

Thus 2025 is the square of us.

Resolving lubul into Prime factors, we get 1 [1464]

14641 = (1×11) × (1×11)

As the factors can be paired into 11[12]

equal factors, we got to know that

14641 is a perfect square

Again (4641 = (12) × (12) = 121?

11 4761

Resolving 4261 into Prime factors, we get \$4461

Resolving 4761 into prime factors, we get \$4961 4961 4964 = (3×3) × (23×23)

As the factors, wan be faired into 23 529 equal backers, when is a perfect series.

Again 4961 = 69×69 = 692.

- 4961 is the square of 69.

All find the smallest number by which given number must be multiplied so that Product is a peaked sown.

Resolving 23805 into primefactics, we get \$\frac{23805}{23805} = (3x3) \times (23x23) \times \frac{3}{23} \frac{1281}{23} \fra

to pair it enally multiply the number 5 23805 x5 = (3x3) (25x2) x (5x5) Again 23805x5=(3x23x5)x (3x23x5) 12150 Resolving 12150 into prime factors, we get of 12150 15120= (Ex2)x(3x3x(347)x(3x7)x5 Obtained factors can be paired into equal factors, 12150 is a except for so multiply given number with 2 Pair it. 12120x5 = (2x2)x (3x3)x (3x3)x (3x3)x (3x3)x Again 12150x2 = (5x3x2x2x2) x (5x3x2x2x2) : Product is the square of 120 9688 Resolving 2688 into prime factors we get 1/7688

7688= (2x2) x(81x3) x2 obtained factors can be paired into Equal factors except for 2.

So multiply given number with 2 to to Pair it.

7688x2 = (2x2) x (3(x3))x (2x2)

Again 7688x2 : (2x3(x2))x (2x3(x2))

= 12u<sup>2</sup>

The product is the square of 12u.

Find the smallest number by which given number must be divided so that resulting number is performed in 12x3.

Resolving 12x3 into prime factors, we get 3 [12x3.

(142x3: (3x3)x (23x2) x3.

Obtained factors can be faired into could 23 (129)

factors, except for 3

so eliminate 3 by dividing the number with).

Agrin (4283 = (3x23) x (3x23) = (69)2

0

: The resultant is square of 69.

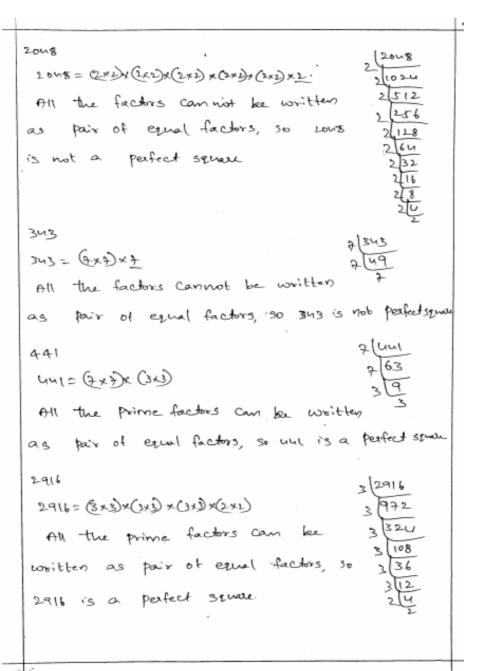
1800
Resolving 1800 into prime factors, we get
1800 = (2×2) x (5×5) x (3×3) x2

Obtained factors can be paired into equal so, eliminate 2 by dividing the number with 2. 1800 = (2x1)x (5x5)x (3x3) Again 1800 = (2x5x3) x (2x5x3)

(m) 2904.

2/2904 Resolving 29ou into prime factors, we get 2 (726 2904 = (2x2)x ((x1) x2x3. 3(363 Obtained factors can be paired into ernal factors except for 2 and 3, So climinate it by dividing the number with 6. 2904 = (2xx) x (1x1) Again 2900 = (2x11) x (2x11) = 22. ... Resultant is square of 22

1 which of the following numbers are perfect squares 11 - prime number, not a feetect square 12 -> Ending with 2, not a perfect square 16 > 4 -> perfect square 32 -> Ending with & not a perfect square 36 -> 62 -> Perfect square 50 >52×2 > Not a perfect square 64 -> 82 -> perfect square 79 -> Prime number, cannot bee a perfect square 81 >92 > perfect squar III > Prime number, Cannot be a perfect sensu 121 -> 112 -> perfect square 6 using prime factorization material, find which of the following numbers are perfect squares. (B) (B) : 189= 3 x3x7. Cannot be written as pair of two equal 32 factors, so 189 is not a perfect square 225 : 225 (RS) x(2) Can be written as pair of equal factors, so 225 is a perfect square



11025=(5x5)x(3x3)x(7x3)

All the prime factors can be written as pair of two equal factors so 11025 is a perfect square.

3549

3549=(13x13)x3x9.

All the factors obtained cannot be waithen as pair of two equal numbers, so 3549 is not a perfect square

1) By what number should each of the following numbers be multiplied to get a perfect square in each case? Also, And the number whose square is new number.

(1) (P 2820

8820=(2x1) x(3x3) x(3x3) x5.

only 5 in obtained factors is 3 [44] un paired, so myltiply the number with 249 5 , to make it paired

Again (8820x5) = (2x3x4x5)x(2x3x4x5)

product is the square of

| (i) 3675                             |          |
|--------------------------------------|----------|
| 3675 = (5x5)x(3x3) x3                | 5/3695   |
| only 3 in obtained factor            | is 3(147 |
| un paired, so multiply the numb      | er 749   |
| with 3, to make it paired.           |          |
| Agrin (26736 = (5x5) x (7x4) x (3x3) |          |
| (EX+X2) x (EX+X3)                    |          |
| = (05)2                              |          |
| Fraduct is square of los.            |          |
| 605                                  |          |
| 605 = 5 x (1121)                     | 5/605    |
| 5x(605)= (5×5) x (11×11)             | "        |
| = (5x1) x (5x1)                      |          |
| 5×605 = 552.                         |          |
| Product is the square of s           | 5        |

2880

= 1202. 5880×2 = (2×3)×(3×3)×(3×3)×(3×5×5×5) 5880×2 = (2×3)×(3×3)×(3×3)×(3×1)×(3×1)

Product is square of 120:

Freduct is square of 156.

(1) 1976

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21

By what number should each of the following numbers be divided to get a perfect square, find the number

 $\frac{\Gamma}{19295} = (4 \times 13) \times (4 \times 13)$   $\frac{\Gamma}{19295} = (4 \times 4) \times (13 \times 13) \times 5$   $\frac{\Gamma}{1183}$   $\frac{\Gamma}{1183}$   $\frac{\Gamma}{1183}$   $\frac{\Gamma}{1183}$ 

Resultant is the senare of the 91.

number must be divided by and Resultant i's senare of us.

5103

number must be divided by 2 and resultant is equal of 27.

@ 312u.

$$314u = 2 \times 3 \times (23 \times 23)$$

$$\frac{314u}{4} = 23 \times 23 = 23^{2}$$

$$2 \times 3 \times 23 = 23^{2}$$

resultant is square of 23.

## **Squares And Square Roots Ex 3.2**

EXERCISE -3.2. The following numbers are not perfect squares Numbers ending with 2,3,4 or 8 are not perfect squares, so (i)1547 @45743 w) 8948 (V) 333333 are not perfect squares @ Show that following numbers are not perfect some As the numbers 19327 (Duo58 m) 22n53 (D) 443522 have 7, 8, 3, 2 as civiling numbers tespectively As mentioned above, numbers aiding with 2,3,7,8 are not perfect symmes, These in given numbers are also not perfect square 3 The square of which of the following numbers would be an odd humber. Square of an odd number is an odd number square of an even number is an even numba (i) 7-31 →bold number ->sequare is odd number.

- 1 3456 -> Even rumber -> so square is overnmented.
- (3) 5559 > odd number > so square is odd number
- 1 42008 -> Even number > 50 Square is even number
- (a) what will be the units digit of squares of the following numbers.
  - units digit of (32) = units digit of (2) = 4.
- (B) 9++ units digit of (3)2= units digit of (3)2=9.
- (m) uses conits digit of (1)2=9.
- (1) 78367 units digit of (2)2=9.
- units digit of (52698) = units digit of (8) = 4
- units digit of (99880) = units digit of (0)=0
- units doit of (12796) = units digit of 6 = 6
- unita digit of (55556)2= units digit of (5)2= 5
- units digit of (53924)2= units digit of 42= 6.

00 1002-99 = 199

= (111+110)+(110+109)

(1) 992-962 = 992-982+982-922+982-962 = (99+98)+(98+93)+(92+96)

(a) which of the following triplets are pythagorean?

(b) (8,15, If (m,n,p) form tripythagorean, then minisp?

(.H.S= 82+132 =289.

L-H-S= R-H-S, So it is pythagerean

D 18,80,82.

L.H.S= 18+ 80= 6,724

R. H.S = 822 = 6724.

L.H.s = R.H.s, It is Pythagorean

14,48,51

L.HS= 14+48= 2500

R.H.s= 51 = 2601

L-H-S + R. H.S , It is not pythagorean.

10 (10, 24, 26)

L.H.S= 10+24=676

R. H-S= 262 = 676

L.H.S = R.H.S It is Pythagorean

(6,63,65)

L.H.S = 182+632 = 4225

R. H3 = 652=4225

L.H.S = R.H.S. It is Bythagorean.

⑤ €,35,38)

L.H.s = 12+352= 1369

RIHIS = 382 = 1444

CH3 + R.H.S, It is not pythagodean.

5 650-30 3 620.

(1) which of the following numbers are squares of

only over numbers be the squares of evernumbers so, 256, 324, 1296, 5426, 373758 Cante squares of evern numbers, but 373758 is not a perfect some so, 256, 324, 1296, 5426 are answers.

- Desket server, so

  1) (028, 1) (022, 1) (023, V) (027 Cannot ke whole server
- (F, because 169 is some number with odd digits

  (F, Square of 3 (prime) is gi(not prime)

  (F, sum of 2 and 3 is is which is not spurse no.
  - Of, Difference of 32 and 22 is 5, which is not square number.
  - All sensiting (Trues) are Verified.

## **Squares And Square Roots Ex 3.3**

|   |                                      | XERCIJE-3.3.    | 20                  |  |  |
|---|--------------------------------------|-----------------|---------------------|--|--|
| I | find sense                           | es of following | numbers using alumn |  |  |
|   | method. verify it by multiplication. |                 |                     |  |  |
|   | 15.                                  | ·               |                     |  |  |
|   | Here as2, 6=5.                       |                 |                     |  |  |
|   | Column I                             |                 | Column - TI         |  |  |
|   | a2-                                  | 2.00.6          | P <sub>2</sub>      |  |  |
|   | ч                                    | 2.0             | ァŽ                  |  |  |
|   | +2                                   | 4 2             |                     |  |  |
|   | 6                                    | 2.2             |                     |  |  |
|   | 6                                    | 2_              | 5                   |  |  |
|   | 252= 625.                            |                 |                     |  |  |
| - | and 252 = 25×25 = 625.               |                 |                     |  |  |
|   | € 37.                                |                 |                     |  |  |
|   | Here a=3, b=7.                       |                 |                     |  |  |
|   |                                      | Column IP       | Calumn - D          |  |  |
|   | a2                                   | 20.6            | 12                  |  |  |
|   | 9                                    | 42_             | ч                   |  |  |
|   | +4                                   | 44              | ·                   |  |  |
|   | 13                                   | 46              |                     |  |  |
|   | (3                                   | 6               | ٩                   |  |  |
|   | 225 = 1880                           |                 |                     |  |  |
|   | and 372= 37x32 =1319.                |                 |                     |  |  |

Here a:5,6=v.

Column I Column II Column II

a² iab b²

25 40 16 502= 2916 502= 50x54 =2916 1) 71

Here a=7, b=1

Column ID Column ID

2ab

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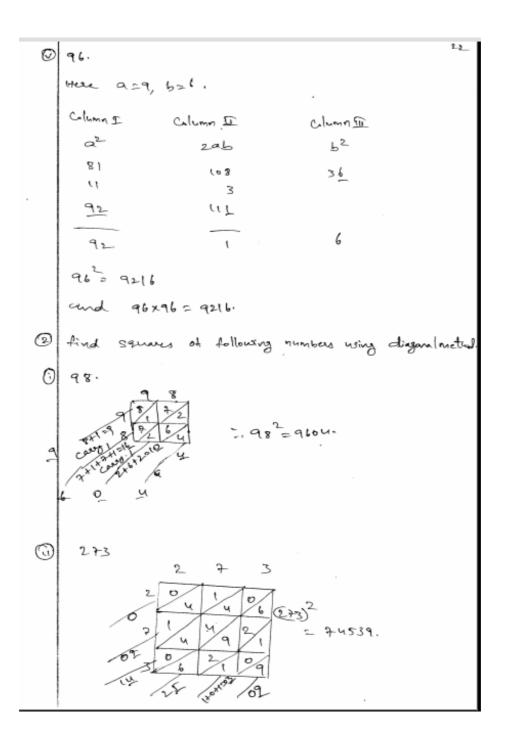
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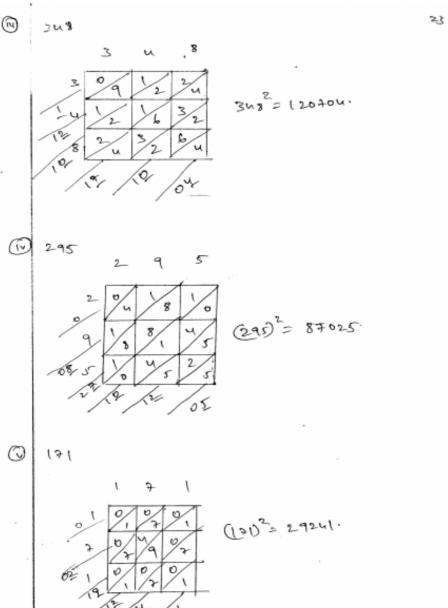
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17= 41×71 = 4941

71= 21×71 = 4941 Column I 62





find the squares of following numbers.

(12+)2=1272127 = 16129

(303)2 = 203×203 = 253009

(us)2= us(xus1 = 20300)

(862)2= 862×862= 741)044

(265)2= 265x265= 20225.

Find squares of following numbers using Identity Catble 2 at + 2ab+62.

ane (405) = (100) = (400) = 52 + 2 (400) (5) 164025.

(I) 510

we have (0)2= (00+10)2= (500)2+102+2(500)(10)

= 250000 Atoo + 10000

260100.

(3) (00)

we have (1000+) = (1000)2+1+2(1000)

= ten 2001.

O 605

- 366025.

( Find squares of following using and a at real +52.

= 160000 +25 - 4000

= 990025

find squares of following rumbers by visual 7. matural.

= 140000 +4 +4 (400)

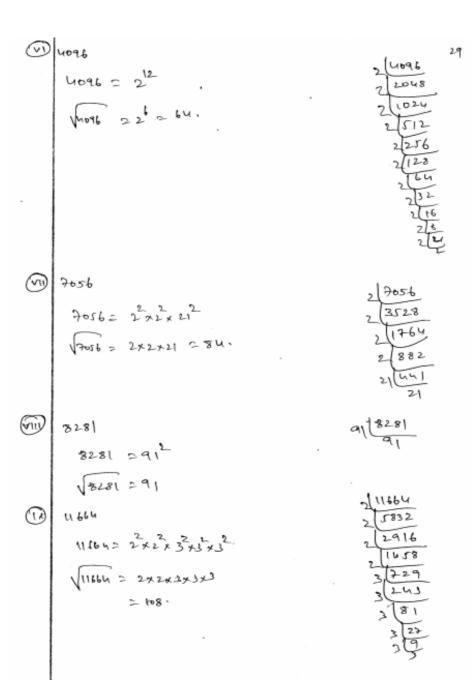
= +37204. Lu2804

## **Squares And Square Roots Ex 3.4**

1) write the possible unit's digits of square root of following numbers. which of these are add square roots units digit=1 units objet of square root = 1 org.
As no. is odd, square root is also odd 199856. units digit of square mot = u or 6 As no. is even, square most is also even. @ 998001 units digit=1 units digit of square book is lorg. As no. is odd, square sort is also odd. @ 657666025. units digit=5.

units digit of square noot 05.

As no. is odd, square root is also odd.



2 (376712 2 (376712

2 188356

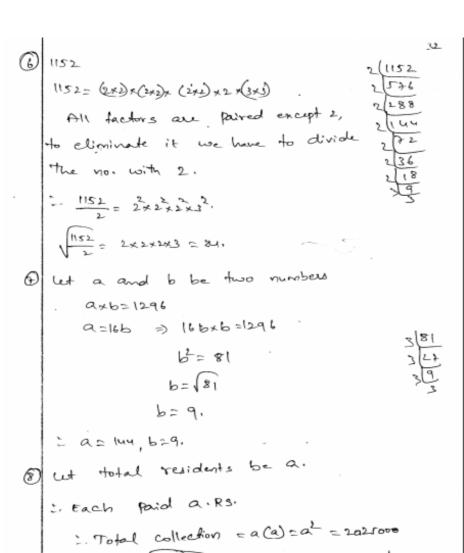
47089  $\bigcirc$ 24336 24336: 22x2x32x132. 12168 6084 V24336 = 242x 3x1) 30 42 3(1521 2156. 507 (XII) 190969 23(190969 190969 = 23 x 192. 8303 23 = 437. 586756 2 586756 2/293378 3838 (146689 4880 (dabbe) 383 2716. 3013696 2 3013696

E 1736.

: 14+x3= 22x32.

= , square root of number= ( wax) = 7x3=4

3645 3645 = 5x (3x3) x (3x3) x (3) Here 5 and 3 are uppaired to climinate them we have to divide Mus with sas, i.e 15 = square not of number=,



900

636

Q = \2025000

a = 5x5x6 = 150.

: Total residents = 150.

=96.
Therewere 96 wembers, each contributed 2 [288]
12 [144]

(B) Let à be number of school students = each student contributed a paise, total money obtained e a paise = 230400 paise a = \( \sum\_{230400} = \sum\_{2304400} = 10\sum\_{2344} \) = \( \frac{2}{230400} = \frac{2}{230400}

On 510x2x2x12.

a= 480

: There were uso students.

◎

let a be side of square field.

2= 5194 m² Q= 5194 m Q= 2x2x2x9 =72 m Perimeta of S2 = 4a = 288 m

Perimeter of sq = ua = 288 m Perimeter of reclarge = 2 (44) = 283 m.

5 388

2 (26+6)2288 b= 48 , l=96. area of rectangle = 96 x 48 m2 · 24608 No.

1 6,9,15 and 20

L.C.M of given unumbers is 180 180= 22x3x5

To make it a perfect square, we have to multiply the number with 5.

=- 180×5=25×3×52 900 is the least square number, divisible

by 6,9, 15 and 20.

ii) 8,12,15 and 20

LCM of given unumbers is 150,

2 360 2 80 360= 2×3×2×5. to make it a perfect square, multiply us. it with exs, i'e to 3600= 23x3x28x52

= 3600 is the least square number, divisible 3,12,15 and 20.

121-1 =120

120-3=117

117-5= 112

112-7=115

115-9=106

95-13= 82

82-12=67

67-17 =50

15 = P1 - 02

31-21= 10

clearly we have performed operation 11 times

: 1/21 211

169-1-168

168-3=165

165-5=160

160-7=153

153-9=144

144-11 = 13)

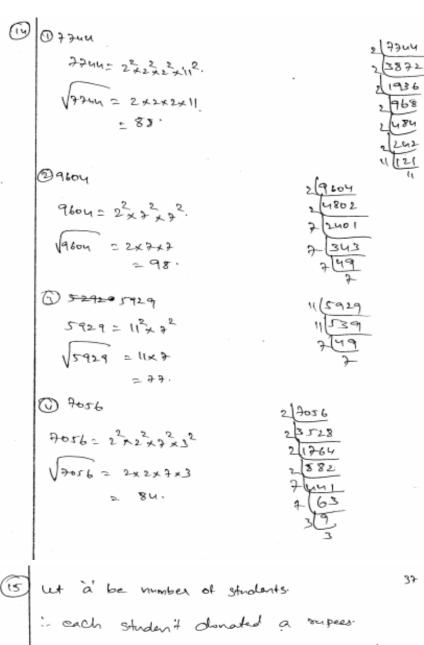
123-13=120

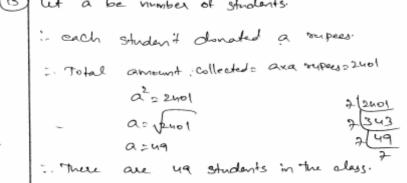
120-15= 605

48-23=25

we have performed subtraction 13 times







(1) Let a kee no. of rows

... no. of columns: a.

Total no. of students who sat in field: a

Total students = a++1 = 6000

## **Squares And Square Roots Ex 3.6**

EXERCISE - 3.6.

18

Find the square root of

$$\frac{441}{961}$$
 $\Rightarrow \sqrt{\frac{401}{961}} = \sqrt{\frac{18}{961}} = \frac{21}{31}$ 
 $\frac{324}{961} = \sqrt{\frac{324}{961}} = \frac{18}{29}$ 
 $\frac{324}{941} = \sqrt{\frac{324}{941}} = \frac{18}{29}$ 
 $\frac{29}{14} = \frac{225}{49} = \frac{25}{49}$ 
 $\frac{29}{14} = \frac{225}{49} = \frac{529}{49} = \frac{529}{49}$ 
 $\frac{13}{196} = \frac{529}{196} = \frac{529}{121} = \frac{28}{11}$ 
 $\frac{21}{12} = \sqrt{\frac{26}{121}} = \frac{2769}{121} = \frac{18769}{129}$ 
 $\frac{21}{125} = \frac{21}{129} = \frac{18769}{129} = \frac{137}{129}$ 
 $\frac{25}{129} = \sqrt{\frac{18769}{129}} = \sqrt{\frac{18769}{129}} = \frac{137}{27}$ 
 $\frac{25}{129} = \sqrt{\frac{18769}{129}} = \sqrt{\frac{18769}{129}} = \frac{137}{27}$ 

$$\begin{array}{c} \sqrt{111} \ \ 75. \frac{41}{44} = \frac{34}{144} = \frac{161}{4} \\ \sqrt{25} \frac{41}{44} = \frac{34}{144} = \frac{161}{4} \\ \sqrt{25} \frac{41}{44} = \frac{34}{144} = \frac{161}{4} \\ \sqrt{25} \frac{942}{2209} = \frac{3259}{2209} = \frac{87}{4} \\ \sqrt{25} \frac{942}{2209} = \frac{9409}{2209} = \frac{93}{55} \\ \sqrt{3} \frac{942}{2209} = \frac{9409}{3025} = \frac{9409}{3025} = \frac{93}{55} \\ \sqrt{3} \frac{942}{2209} = \frac{9409}{3025} = \frac{9409}{3364} = \frac{93}{55} \\ \sqrt{21} \frac{2797}{3364} = \frac{73444}{3364} = \frac{271}{3364} = \frac{3364}{3364} = \frac{271}{3364} \\ \sqrt{21} \frac{2797}{3564} = \frac{961}{25} = \frac{961}{25} = \frac{17111}{25} \\ \sqrt{21} \frac{394}{329} = \frac{17111}{329} = \frac{17111}{329} \\ \sqrt{21} \frac{394}{329} = \frac{17111}{329} = \frac{17111}{329} = \frac{17111}{329} \\ \sqrt{21} \frac{394}{329} = \frac{17111}{329} = \frac{171111}{329} = \frac{17111}{329} = \frac{17111}{329} = \frac{17111}{329} = \frac{171111}{3$$

Find the value of

(i)  $\frac{\sqrt{20}}{\sqrt{1005}}$ We know that  $\frac{\sqrt{a}}{\sqrt{b}} = \frac{\sqrt{a}}{\sqrt{b}}$ Therefore  $\frac{30}{400} = \frac{30}{81}$  (cancelling numerator and denompoter with 5)  $= \frac{\sqrt{10}}{\sqrt{11}} = \frac{1}{\sqrt{11}}$ (i)  $\frac{1}{\sqrt{10}} = \frac{21}{\sqrt{10}}$ (ii)  $\frac{1}{\sqrt{10}} = \frac{21}{\sqrt{10}}$ (iii)  $\frac{1}{\sqrt{10}} = \frac{21}{\sqrt{10}}$ (iv)  $\frac{1}{\sqrt{10}} = \frac{21}{\sqrt{10}}$ (iii)  $\frac{1}{\sqrt{10}} = \frac{21}{\sqrt{10}}$ 

3 J2x3x13 = 156.

$$\frac{1}{2} = \frac{58544}{529}$$

$$\frac{\sqrt{58544}}{\sqrt{529}}$$

$$= \frac{242}{24}$$

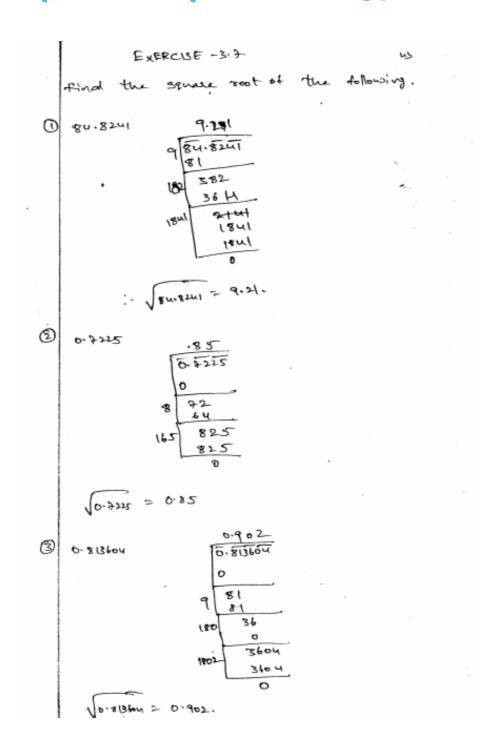
@ Civen, area = 30. 
$$\frac{1}{u}$$
 m<sup>2</sup>

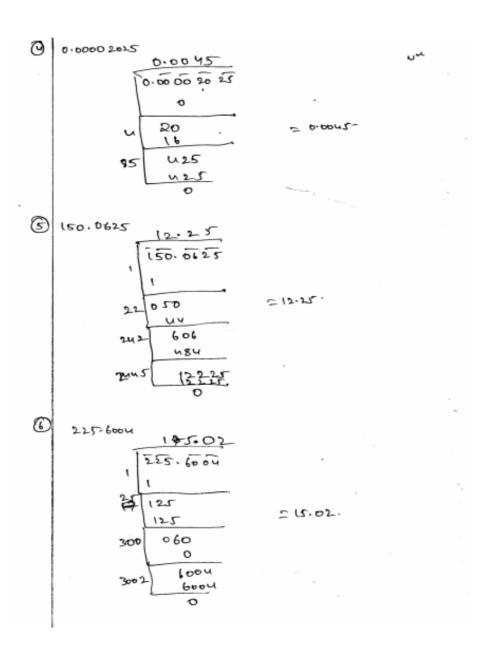
=  $\frac{121}{u}$  m<sup>1</sup>

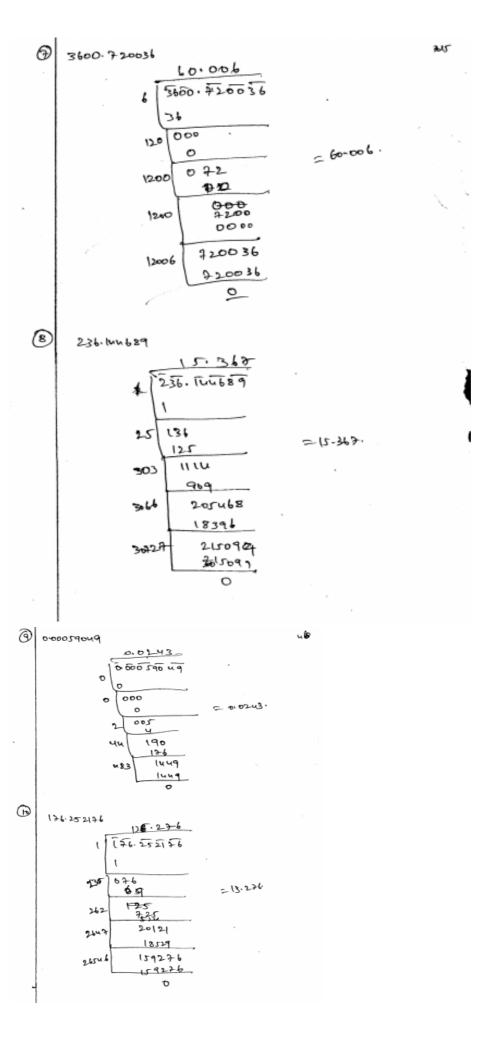
If  $L$  is length of each side

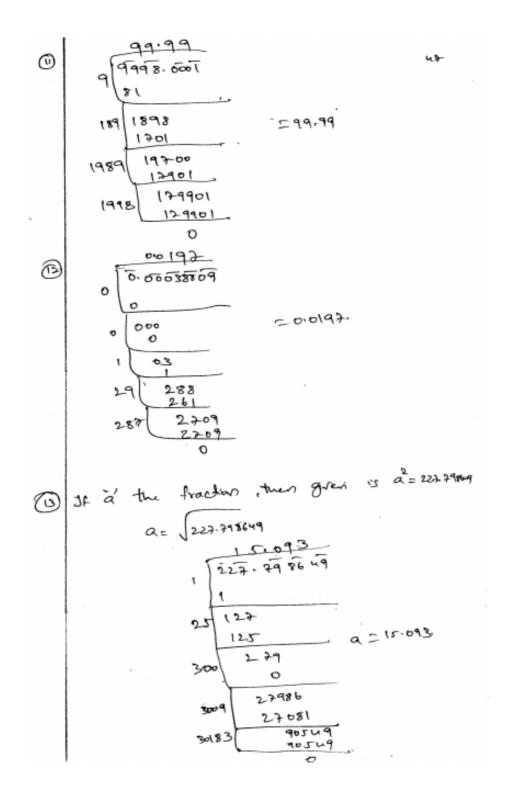
then  $L^2 = \frac{121}{u}$ 
 $L^2 = \frac{121}{u}$ 

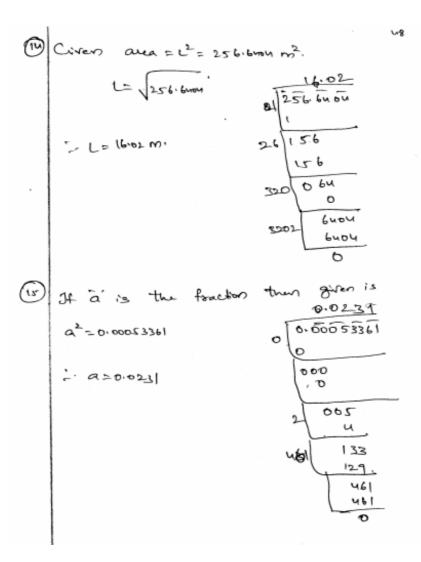
## **Squares And Square Roots Ex 3.7**











$$\sqrt{59.29} + \sqrt{5.29}$$
Airst we find  $\sqrt{5929}$  and  $\sqrt{529}$ 

$$+ \frac{23}{5929}$$

$$+ \frac{1029}{1029}$$

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$$\sqrt{59.29} = \sqrt{\frac{5927}{100}} = \frac{22}{10}, \sqrt{529} = \sqrt{\frac{529}{100}} = \frac{23}{10}$$

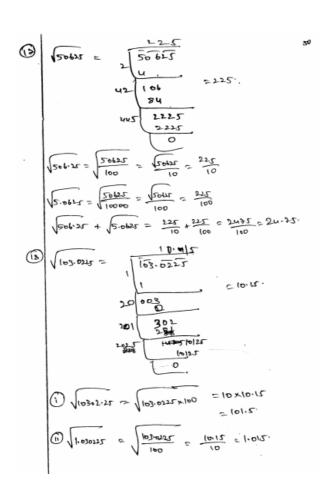
(i) Ve. 2764 + VO.1344

VO.1344

VIENT UTTOOOD USAU

VIENT UTTOOOD

VIENT USAU



## **Squares And Square Roots Ex 3.8**

