MATHS

BOOKS - MBD

SQUARES AND SQUARE ROOTS.

Example

1. Find the perfect square numbers between:

30 and 40.

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2. Find the perfect square numbers between: 50 and 60.

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3. The following numbers are obviously not perfect squares. Give reason : 1057

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4. The following numbers are obviously not perfect squares. Give reason : 23453

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5. The following numbers are obviously not perfect squares. Give reason : 7928

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6. The following numbers are obviously not perfect squares. Give reason : 222222

7. Can we say wether the following numbers are perfect squares ?How do we know?

1069

8. Can we say wether the following numbers are perfect squares ?How do we know?

2061

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9. Write five numbers which you can decide by looking at their one's digit that they are not square numbers.

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10. Write five numbers which you cannot decide just by looking at their unit's digit(or one's place) whether they are square numbers or not.

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11. $(123)^2, (77)^2, (82)^2, (161)^2, (109)^2$.Which would end with digit 1 ?

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12. Which of the following numbers would have digit 6 at unit place ?

19^2

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13. Will the following number would have digit 6 at unit place ?

24^2

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14. Which of the following numbers would have digit 6 at unit place ?

26^2

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15. Which of the following numbers would have digit 6 at unit place ?

36^2

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16. Which of the following numbers would have digit 6 at unit place ?

34^2

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17. What will be the "one's digit" in the square of the following numbers ?

1234

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18. What will be the "one's digit" in the square of the following numbers ?

26387

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19. What will be the "one's digit" in the square of the following numbers ?

52698

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20. What will be the "one's digit" in the square of the following numbers ?

99880

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21. What will be the "one's digit" in the square of the following numbers ?

21222

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22. What will be the "one's digit" in the square of the following numbers ?

9106

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23. The square of which of the following would be an odd number/an even number?Why?

727

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24. The square of which of the following would be an odd number/an even number?Why?

158

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25. The square of which of the following would be an odd number/an even number?Why?

269

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26. The square of which of the following would be an odd number/an even number?Why?

1980

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27. What will be the number of zeroes in the square of the following numbers?

60

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28. What will be the number of zeroes in the square of the following numbers?

400

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29. How many natural numbers lies between 9^2 and 10^2?

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30. How many non-square numbers lie between the following pairs of numbers.

$(100)^2$ and $(101)^2$.

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31. How many non-square numbers lie between the following pairs of numbers.

$(90)^2$ and $(91)^2$

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32. How many non-square numbers lie between the following pairs of numbers.

$(1000)^2$ and $(1001)^2$.

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33. Find whether each of the following numbers is a perfect square or not.

121

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34. Find whether each of the following numbers is a perfect square or not.

55

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35. Find whether each of the following numbers is a perfect square or not.

81

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36. Find whether each of the following numbers is a perfect square or not.

94

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37. Find whether each of the following numbers is a perfect square or not.

69

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38. Express the following as the sum of two consecutive integers.

`(21)^2

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39. Express the following as the sum of two consecutive integers.

$(13)^2$.

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40. Express the following as the sum of two consecutive integers.

$(11)^2$.

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41. Express the following as the sum of two consecutive integers.

$(19)^2$.

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42. Do you think the reverse is also true,i.e,is the sum of any two consecutive positive integers a perfect square of a number ?Give examle to support your answer.

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43. Write the square making use of above pattern:

111111^2.

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44. Write the square making use of above pattern:

1111111^2.

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45. Can you find the square of the following numbers using the above pattern:

6666667^2.

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46. Can you find the square of the following numbers using the above pattern:

6666667^2.

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47. What will be the unit digit of the squares of the following numbers : 81

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48. What will be the unit digit of the squares of the following numbers : 272

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49. What will be the unit digit of the squares of the following numbers : 799

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50. What will be the unit digit of the squares of the following numbers : 3853

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51. What will be the unit digit of the squares of the following numbers : 1234

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52. What will be the unit digit of the squares of the following numbers : 26387

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53. What will be the unit digit of the squares of the following numbers : 52698

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54. What will be the unit digit of the squares of the following numbers : 99880

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55. What will be the unit digit of the squares of the following numbers : 12796

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56. What will be the unit digit of the squares of the following numbers : 55555

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57. The following numbers are obviously not perfect squares. Give reason : 1057

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58. The following numbers are obviously not perfect squares. Give reason : 23453

Watch Video Solution

59. The following numbers are obviously not perfect squares. Give reason : 7928

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60. The following numbers are obviously not perfect squares. Give reason : 222222

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61. The following numbers are obviously not perfect squares. Give reason : 64000

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62. The following numbers are obviously not perfect squares. Give reason : 89722

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63. The following numbers are obviously not perfect squares. Give reason : 222000

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64. The following numbers are obviously not perfect squares. Give reason : 505050

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65. The squares of which of the following would be odd numbers : 431

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66. The squares of which of the following would be odd numbers : 2826

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67. The squares of which of the following would be odd numbers : 7779

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68. The squares of which of the following would be odd numbers : 82004

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69. Observe the following pattern and find the missing digits.

$11^2 = 121.$

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70. Observe the following pattern and find the missing digits.

$10001^2 = 1.....2.....1$

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71. Observe the following pattern and find the missing digits.

$10001^2 = 1.....2.....1$

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72. Observe the following pattern and find the missing digits.

$10001^2 = 1.....2.....1$

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73. Observe the following pattern and find the missing digits.

$10000001 = ...$

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74. Observe the following pattern and find the missing digits.

$11^2 = 121.$

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75. Observe the following pattern and find the missing digits.

$11^2 = 121.$

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76. Observe the following pattern and supply the missing numbers:

$10101^2 = 102030201.$

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77. Observe the following pattern and supply the missing numbers:

$\ldots\ldots\ldots\ldots^2 = 10203040504030201.$

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78. Using the given pattern,find the missing numbers.

$1^2 + 2^2 + 2^2 = 3^2$

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79. Using the given pattern,find the missing numbers.

$2^2 + 3^2 + 6^2 = 7^2.$

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80. Using the given pattern,find the missing numbers.

$3^2 + 4^2 + 12^2 = 13^2.$

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81. Using the given pattern,find the missing numbers.

$4^2 + 5^2 + \ldots^2 = 21^2.$

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82. Using the given pattern,find the missing numbers.

$5^2 + \ldots^2 + 30^2 = \ldots^2.$

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83. Using the given pattern,find the missing numbers.

$6^2 + 7^2 + \ldots^2 = \ldots^2.$

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84. Without adding ,find the sum :

1+3+5+7+9.

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85. Without adding ,find the sum :

1+3+5+7+9+11+13+15+17+19.

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86. Without adding ,find the sum :

1+3+5+7+9+11+13+15+17+19+21+23.

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87. Express 49 as the sum of 7 odd numbers.

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88. Express 121 as the sum of 11 odd numbers.

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89. How many numbers lie between squares of the following numbers: 12 and 13

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90. How many numbers lie between squares of the following numbers: 25 and 26

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91. How many numbers lie between squares of the following numbers: 99 and 100

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92. Find the squares of the following numbers 15.

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93. Find the squares of the following numbers containing 5 in unit's place.

95

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94. Find the squares of the following numbers containing 5 in unit's place.

105

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95. Find the saquares of the following numbers containing 5 in unit's place.

205

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96. Find the square of the following numbers :

32

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97. Find the square of the following numbers :

35

98. Find the square of the following numbers :

86

99. Find the square of the following numbers :

93

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100. Find the square of the following numbers

: 71

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101. Find the square of the following numbers :

46

102. Write a Pythagorean triplet whose one member is : 6

103. Write a Pythagorean triplet whose one member is : 14

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104. Write a Pythagorean triplet whose one member is : 16

Watch Video Solution

105. Write a Pythagorean triplet whose one member is : 18

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106. $11^2 = 121$. What is the square root of 121.

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107. $14^2 = 196$.What is the square root of 196.

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108. $(-1)^2 = 1$. Is -1 a square root of 1 ?.

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109. $(-2)^2 = 4$.Is -2,a square root of 4?

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110. $(-9)^2 = 81$. Is -9 a square root of 81?

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111. By repeater subtracion of odd numbers from 1,find whether the following numbers are perfect squares or not?If the number is a perfect squar,then,find its square root.

121

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112. By repeated subtraction of odd numbers from 1,find whether the following numbers are

perfect squares or not?If the number is a perfect squar,then,find its square root.

49

113. By repeater subtracion of odd numbers from 1,find whether the following numbers are perfect squares or not?If the number is a perfect squar,then,find its square root.

90

114. What could be the 'one's ' digits of the square root of each of the following numbers?

9801

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115. What could be the 'one's ' digits of the square root of each of the following numbers?

99856

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116. What could be the 'one's ' digits of the square root of each of the following numbers?

998001

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117. What could be the 'one's ' digits of the square root of each of the following numbers?

657666025

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118. Without doing any calculation, find the numbers which are surely not perfect squares:

153

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119. Without doing any calculation, find the numbers which are surely not perfect squares:

257

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120. Without doing any calculation, find the numbers which are surely not perfect squares:

408

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121. Without doing any calculation, find the numbers which are surely not perfect squares:

441

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122. Find the square roots of the following numbers by the Prime Factorisation Method: 729

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123. Find the square roots of the following numbers by the Prime Factorisation Method: 400

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124. Find the square roots of the following numbers by the Prime Factorisation Method: 1764

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125. Find the square roots of the following numbers by the Prime Factorisation Method: 4096

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126. Find the square roots of the following numbers by the Prime Factorisation Method: 7744

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127. Find the square roots of the following numbers by the Prime Factorisation Method: 9604

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128. Find the square roots of the following numbers by the Prime Factorisation Method: 5929

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129. Find the square roots of the following numbers by the Prime Factorisation Method: 9216

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130. Find the square roots of the following numbers by the Prime Factorisation Method: 529

131. Find the square roots of the following numbers by the Prime Factorisation Method:8100

132. 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: 252

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133. 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: 180

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134. 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: 1008

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135. 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: 2028

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136. 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: 1458

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137. 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: 768

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138. 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: 252

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139. 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: 2925

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140. 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: 396

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141. 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: 2645

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142. 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: 2800

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143. 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: 1620

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144. The students of Class VIII of a school donated Rs 2401 in all, for Prime Minister's National Relief Fund. Each student donated as many rupees as the number of students in the class. Find the number of students in the class.

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145. 2025 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the

number of rows and the number of plants in each row.

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146. Find the smallest square number that is divisible by each of the numbers 4, 9 and 10.

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147. Find the smallest square number that is divisible by each of the numbers 8, 15 and 20.

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148. Can we say that if a perfect square is of n digits, then its square root will have $\frac{n}{2}$ digits if n is even or $\left(\frac{n+1}{2}\right)$ if n is odd ?

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149. Without calculatig square roots,find the number of digits in the square root of the

following numbers.

25600.

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150. Without calculatig square roots,find the number of digits in the square root of the following numbers.

100000000

Watch Video Solution

151. Without calculatig square roots,find the number of digits in the square root of the following numbers.

36864

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152. Estimate the value of the following to the nearest whole number :

$squr80.$

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153. Estimate the value of the following to the nearest whole number :

$squr1000$

Watch Video Solution

154. Estimate the value of the following to the nearest whole number :

$\sqrt{350}$

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155. Estimate the value of the following to the nearest whole number :

$\sqrt{500}$.

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156. Find the square root of each of the following numbers by Division method: 2304

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157. Find the square root of each of the following numbers by Division method: 4489

158. Find the square root of each of the following numbers by Division method: 3481

159. Find the square root of each of the following numbers by Division method: 529

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160. Find the square root of each of the following numbers by Division method: 3249

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161. Find the square root of each of the following numbers by Division method: 1369

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162. Find the square root of each of the following numbers by Division method: 5776

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163. Find the square root of each of the following numbers by Division method: 900

164. Find the square root of each of the following numbers by Division method: 576

165. Find the square root of each of the following numbers by Division method: 1024

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166. Find the square root of each of the following numbers by Division method: 3136

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167. Find the square root of each of the following numbers by Division method: 900

168. Find the number of digits in the square root of each of the following numbers (without any calculation): 64

169. Find the number of digits in the square root of each of the following numbers (without any calculation): 144

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170. Find the number of digits in the square root of each of the following numbers (without any calculation): 4489

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171. Find the number of digits in the square root of each of the following numbers (without any calculation): 27225

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172. Find the number of digits in the square root of each of the following numbers (without any calculation): 390625

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173. Find the square root of the following decimal numbers: 2.56

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174. Find the square root of the following decimal numbers: 7.29

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175. Find the square root of the following decimal numbers: 51.84

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176. Find the square root of the following decimal numbers: 42.25

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177. Find the square root of the following decimal numbers: 31.36

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178. Find the least number which must be subtracted from each of the following numbers so as to get a perfect square. Also find the square root of the perfect square so obtained: 402

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179. Find the least number which must be subtracted from each of the following numbers so as to get a perfect square. Also

find the square root of the perfect square so obtained: 1989

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180. Find the least number which must be subtracted from each of the following numbers so as to get a perfect square. Also find the square root of the perfect square so obtained: 3250

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181. Find the least number which must be subtracted from each of the following numbers so as to get a perfect square. Also find the square root of the perfect square so obtained: 825

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182. Find the least number which must be subtracted from each of the following numbers so as to get a perfect square. Also

find the square root of the perfect square so obtained: 4000

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183. Find the length of the side of a square whose area is $441m^2$.

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184. In a right triangle ABC,$\angle B = 90^\circ$: If AB = 6 cm, BC = 8 cm, find AC

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185. In a right triangle ABC,$\angle B = 90^\circ$: If AC = 13 cm, BC = 5 cm, find AB

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186. A gardener has 1000 plants. He wants to plant these in such a way that the number of rows and the number of columns remain

same. Find the minimum number of plants he needs more for this.

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187. There are 500 children in a school. For a P.T. drill they have to stand in such a manner that the number of rows is equal to number of columns. How many children would be left out in this arrangement.

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188. Which is the perfec square number in the following numbers?

A. 47

B. 43

C. 49

D. 45

Answer:

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189. Which is not perfect square number in the following numbers?

A. 81

B. 55

C. 64

D. 68

Answer:

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190. Which square number lies between 80 and 90 ?

A. 81

B. 85

C. 88

D. 89

Answer:

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191. Which square number lies between 95 and 105.

A. 96

B. 100

C. 102

D. 104

Answer:

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192. Which of the following is not a perfect square.

A. 625

B. 64

C. 150

D. 144

Answer:

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193. Which number has an odd square:

A. 16

B. 9

C. 8

D. 12

Answer:

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194. How many digits are there in the square root of number 1234321.

A. 3

B. 5

C. 4

D. 16

Answer:

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195. Which number has 121 as its square:

A. 9

B. 5

C. 13

D. 11

Answer:

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196. The square root of 0.04 will be :

A. 2.2

B. 0.02

C. 2

D. 0.2.

Answer:

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197. The value of $(0.03)^2$ will be:

A. 0.09

B. 0.006

C. 0.0009

D. 0.009.

Answer:

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198. The tens digits of the square root of 2304 will be :

A. 2

B. 3

C. 4

D. 5

Answer:

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199. The units digit of the square root of 1296 will be:

A. 2

B. 4

C. 6

D. 8

Answer:

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200. 2025 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the

number of rows and the number of plants in each row.

A. 25

B. 45

C. 35

D. 55

Answer:

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Exercise

1. What will be the unit digit of the squares of the following numbers:

49

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2. What will be the unit digit of the squares of the following numbers:

598

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3. What will be the unit digit of the squares of the following numbers:

725

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4. What will be the unit digit of the squares of the following numbers:

2651

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5. What will be the unit digit of the squares of the following numbers:

1324

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6. What will be the unit digit of the squares of the following numbers:

34393

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7. What will be the unit digit of the squares of the following numbers:

25802

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8. What will be the unit digit of the squares of the following numbers:

52740

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9. What will be the unit digit of the squares of the following numbers:

12836

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10. What will be the unit digit of the squares of the following numbers:

36257

Watch Video Solution

11. The following numbers are obviously not perfect squares.Give reason.

512

Watch Video Solution

12. The following numbers are obviously not perfect squares.Give reason.

6128

Watch Video Solution

13. The following numbers are obviously not perfect squares.Give reason.

31283

Watch Video Solution

14. The following numbers are obviously not perfect squares.Give reason.

21432

Watch Video Solution

15. The following numbers are obviously not perfect squares.Give reason.

87687

Watch Video Solution

16. The following numbers are obviously not perfect squares.Give reason.

95430

Watch Video Solution

17. The following numbers are obviously not perfect squares.Give reason.

33453

Watch Video Solution

18. The squares of which of the following would be odd numbers?

333

Watch Video Solution

19. The squares of which of the following would be odd numbers?

2665

20. The squares of which of the following would be odd numbers?

24877

21. The squares of which of the following would be odd numbers?

21976

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22. The squares of which of the following would be odd numbers?

7321

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23. Observe the following pattern and find the missing digits:

$1^2 = 1$

$11^2 = 121$

$111^2 = 12321$

$1111^2 = 1234321$

$111111^2 = \ldots\ldots\ldots$

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24. Observe the following pattern and find the missing digits:

$1^2 = 1$

$11^2 = 121$

$111^2 = 12321$

$1111^2 = 1234321$

$1111111^2 = \ldots\ldots\ldots$

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25. Observe the following pattern and find the missing digits:

$1^2 = 1$

$11^2 = 121$

$111^2 = 12321$

$1111^2 = 1234321$

$11111111^2 = \ldots\ldots\ldots$

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26. By observe pattern find the missing digits:

$1111^2 = 1\ldots\ldots\ldots\ldots .1.$

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27. Observe the following pattern and find the missing digits:

$11111^2 = 1. .3. .5. .3. .1.$

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28. Using the given pattern,find the missing numbers.

$11 \times 13 = (12 - 1) \times (12 + 1) = 12^2 - 1$

$13 \times 15 = (14 - 1) \times (14 + 1) = 14^2 - 1$

$15 \times 17 = (16 - 1) \times (16 + 1) = 16^2 - 1$

$19 \times 21 =$ _____.

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29. find the missing numbers.

$29 \times 31 = (\ldots\ldots\ldots) \times (\ldots\ldots\ldots) = \ldots\ldots\ldots\ldots$

Watch Video Solution

30. find the missing numbers.

$35 \times 37 = (\ldots\ldots\ldots) \times (\ldots\ldots\ldots) = \ldots\ldots\ldots\ldots$

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31. Find the square of the folloiwng numbers

33

Watch Video Solution

32. Find the square of the folloiwng numbers

36

Watch Video Solution

33. Find the square of the folloiwng numbers

85

34. Find the square of the folloiwng numbers

91

35. Find the square of the following numbers

74

36. Find the square of the following numbers

42

37. Write a Pythagorean triplet whose smallest member is 8.

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38. Write a pythagorean triplet whose smallest member is

12

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39. Write a pythagorean triplet whose smallest member is

3

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40. What could be the possible one's digits of the square root of each of the following numbers ?

7056

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41. What could be the possible one's digits of the square root of each of the following numbers ?

85849

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42. What could be the possible one's digits of the square root of each of the following numbers ?

725904

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43. What could be the possible one's digits of the square root of each of the following numbers ?

1065024

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44. Without doing any calclation,find the numbers which are surely not perfect squares.

247

45. Without doing any calclation,find the numbers which are surely not perfect squares.

364

46. Without doing any calclation,find the numbers which are surely not perfect squares.

508

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47. Without doing any calclation,find the numbers which are surely not perfect squares.

625

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48. Find the square root of each of the following by the method of repeated

subtraction:

81

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49. Find the square root of each of the following by the method of repeated subtraction:

121

Watch Video Solution

50. Find the square root of each of the following by the method of repeated subtraction:

144

Watch Video Solution

51. Find the square root of each of the following by the method of repeated subtraction:

196

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52. Find the square roots of the following numbers by the Prime Factorisation method

625

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53. Find the square roots of the following numbers by the Prime Factorisation method

576

Watch Video Solution

54. Find the square roots of the following numbers by the Prime Factorisation method

1024

55. Find the square roots of the following numbers by the Prime Factorisation method

7056

56. Find the square roots of the following numbers by the Prime Factorisation method

8281

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57. 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.

200

58. 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.

864

59. 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.

5040

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60. 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.

2352

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61. For each of the number,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 root of the square

number so obtained.

242

62. For each of the number,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 root of the square number so obtained.

2268

63. For each of the number,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 root of the square number so obtained.

4032

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64. For each of the number,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 root of the square number so obtained.

9408

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65. A school collected Rs.2601 as fees from its students.If each student paid as many paise as there were students in the school,how many students were there in the school?

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66. 5929 students are sitting in an auditorium in such a manner that there are as many as students in a row as there are rows in the auditorium. How many rows are there in the auditorium?

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67. Find the smallest square number which is divisible by each of the numbers 6, 9 and 15.

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68. Find the square root of each of the following numbers by Division method :

8281

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69. Find the square root of each of the following numbers by Division method :

531441

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70. Find the square root of each of the following numbers by Division method :

363609

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71. Find the square root of each of the following numbers by Division method :

4401604

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72. Find the square root of each of the following numbers by Division method :

21224449

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73. Find the number of digits in the square root of each of the following numbers (without any calculation) :

49

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74. Find the number of digits in the square root of each of the following numbers (without any calculation) :

256

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75. Find the number of digits in the square root of each of the following numbers

(without any calculation) :

4624

76. Find the number of digits in the square root of each of the following numbers (without any calculation) :

15129

77. Find the number of digits in the square root of each of the following numbers (without any calculation) :

262144

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78. Find the least numbers which must be subtracted from each of the following numbers so as to get a perfect square.Also find the square root of the perfect square so

obtained.

2837

79. Find the least numbers which must be subtracted from each of the following numbers so as to get a perfect square.Also find the square root of the perfect square so obtained.

4267

80. Find the least numbers which must be subtracted from each of the following numbers so as to get a perfect square.Also find the square root of the perfect square so obtained.

13934

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81. Find the least numbers which must be subtracted from each of the following

numbers so as to get a perfect square.Also find the square root of the perfect square so obtained.

367240

82. Find the least number which must be added to the following number so as to get a perfect square. Also find the square root of the perfect square so obtained.

1507

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83. Find the least number which must be added to each of the following numbers.So as to get a perfect square.Also find the square root of the perfect square so obtained.

9796

Watch Video Solution

84. Find the least number which must be added to each of the following numbers.So as

to get a perfect square.Also find the square root of the perfect square so obtained.

35324

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85. Find the least number which must be added to the following number so as to get a perfect square. Also find the square root of the perfect square so obtained.

777917

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86. Find the length of the side of a square whose area is 2304 m^2.

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87. In a right triangle ABC ,$\angle B = 90^\circ$.

If AB = 3 cm,BC = 4 cm,find AC.

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88. In a right triangle ABC ,$\angle B = 90^\circ$.

If AC = 17 cm, BC = 8 cm,find AB.

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89. A gardener has 1300 plants.He wants to plant these in such a way that the number of rows and the number of columns remain same .Find the minimum number of plants he needs more for this.

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90. There are 2401 students in a school. P.T. teacher wants them to stand in rows and columns such that the number of rows is equal to the number of columns. Find the number of rows.

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