MATHS

BOOKS - KALYANI PUBLICATION

SYSTEM OF NUMERATION

Example

1. Express the following numbers in Roman numerals

329

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2. Express the following numbers in Roman numerals

853

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3. Express the following numbers in Roman numerals

3624

Watch Video Solution

4. Express the following numbers in Roman numerals

7002

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5. Express the following numbers in Indo Arabian System.

MXL

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6. Express the following numbers in Indo Arabian System.

$\overline{L}DXLVII$

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7. Express the following numbers in Indo Arabian System.

CXCV.

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8. Convert the number 970 of decimal system in to a system, where the numeration is based on five. In other word convert the number 970 of decimal system into the quinary system of numeration.

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9. Convert the following number into decimal system

$(2313)_{four}$.

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10. Convert the following number into decimal system

$(2134)_{five}$.

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11. $(245)_x$ is a number in a numeral system whose radix is x. If its decimal conversion is 101 then find x.

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12. $(21)_x$ and $(25)_{x+2}$ are two numbers in two numeral system whose bases are x and $x+2$. If their decimal conversion are y and $2y-1$ respectively, find x and y.

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13. Convert the number 15251 of decimal system into the numerals of Duodenary system (base 12).

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14. Convert the radix fraction $(.3122)_{four}$ in the numerals of decimal system.

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15. Express the decimal fraction $.312$ as radix fraction in the numerals of radix 5.

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16. Express $\frac{50}{81}$ as a radix fraction of base 3.

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17. Convert the number 5324.625 into the system of numbers of radix 4.

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18. Express 121 in binary system of numerals.

Watch Video Solution

19. Converts $(101001)_{two}$ into decimal system.

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20. Find the sum $1010111 + 10100$

Watch Video Solution

21. Find the sum $101011 + 110011$

Watch Video Solution

22. Find the sum $10110 + 1010 + 111011$

Watch Video Solution

23. Subtract 1100011 from 10110100

Watch Video Solution

24. Evaluate by complement method $(1010111) - (101010)_{two}$

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25. Find the product of 1101×101.

Watch Video Solution

26. Find the division of the following

$111001 \div 1001$

Watch Video Solution

27. Find the division of the following

$10101011 \div 1101$

Watch Video Solution

28. Express the following decimal system number in numeral of binary system.

5.

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29. Express the following decimal system number in numeral of binary system.

9.

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30. Express the following decimal system number in numeral of binary system.

12

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31. Express the following decimal system number in numeral of binary system.

18

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32. Express the following decimal system number in numeral of binary system.

26

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33. Express the following decimal system number in numeral of binary system.

29

Watch Video Solution

34. Express the following decimal system number in numeral of binary system.

32

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35. Express the following decimal system number in numeral of binary system.

44

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36. Express the following decimal system number in numeral of binary system.

50

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37. Express the following decimal system number in numeral of binary system.

111

Watch Video Solution

38. Express the following decimal system number in numeral of binary system.

173

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39. Express the following decimal system number in numeral of binary system.

196

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40. Express the following decimal system number in numeral of binary system.

236

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41. Express the following decimal system number in numeral of binary system.

255

Watch Video Solution

42. Express the following decimal system number in numeral of binary system.

298

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43. Express the following decimal system number in numeral of binary system.

331

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44. Express the following decimal system number in numeral of binary system.

382

Watch Video Solution

45. Express the following decimal system number in numeral of binary system.

515

Watch Video Solution

46. Express the following decimal system number in numeral of binary system.

1120

Watch Video Solution

47. Express the following decimal system number in numeral of binary system.

1520

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48. Express the following binary system number in numeral of decimal system.

100

Watch Video Solution

49. Express the following binary system number in numeral of decimal system.

101

Watch Video Solution

50. Express the following binary system number in numeral of decimal system.

110

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51. Express the following binary system number in numeral of decimal system.

111

Watch Video Solution

52. Express the following binary system number in numeral of decimal system.

1000

Watch Video Solution

53. Express the following binary system number in numeral of decimal system.

1001

Watch Video Solution

54. Express the following binary system number in numeral of decimal system.

1010

Watch Video Solution

55. Express the following binary system number in numeral of decimal system.

1011

Watch Video Solution

56. Express the following binary system number in numeral of decimal system.

1110

Watch Video Solution

57. Express the following binary system number in numeral of decimal system.

1111

Watch Video Solution

58. Express the following binary system number in numeral of decimal system.

10001

Watch Video Solution

59. Express the following binary system number in numeral of decimal system.

11001

Watch Video Solution

60. Express the following binary system number in numeral of decimal system.

100101

Watch Video Solution

61. Express the following binary system number in numeral of decimal system.

11100

Watch Video Solution

62. Express the following binary system number in numeral of decimal system.

10011

Watch Video Solution

63. Express the following binary system number in numeral of decimal system.

100101

Watch Video Solution

64. Express the following binary system number in numeral of decimal system.

110110

Watch Video Solution

65. Express the following binary system number in numeral of decimal system.

100001

Watch Video Solution

66. Express the following binary system number in numeral of decimal system.

10001001

Watch Video Solution

67. Express the following binary system number in numeral of decimal system.

11100101

Watch Video Solution

68. Express the following binary system number in numeral of decimal system.

1111111

Watch Video Solution

69. Express the following binary system number in numeral of decimal system.

11111100

Watch Video Solution

70. Express the following binary system number in numeral of decimal system.

100100100

Watch Video Solution

71. Express the following binary system number in numeral of decimal system.

101000111

Watch Video Solution

72. Express the following binary system number in numeral of decimal system.

1100111111

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73. Evaluate the following sum (The base two in each case)

$101 + 11$

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74. Evaluate the following sum (The base two in each case)

$101 + 101$

Watch Video Solution

75. Evaluate the following sum (The base two in each case)

$110 + 101$

Watch Video Solution

76. Evaluate the following sum (The base two in each case)

$111 \div 111$

Watch Video Solution

77. Evaluate the following sum (The base two in each case)

$1101 + 111$

Watch Video Solution

78. Evaluate the following sum (The base two in each case)

$1011 + 1010$

Watch Video Solution

79. Evaluate the following sum (The base two in each case)

$1100 + 1110$

Watch Video Solution

80. Evaluate the following sum (The base two in each case)

$10101 + 1101$

Watch Video Solution

81. Evaluate the following sum (The base two in each case)

$10110 \div 1011$

Watch Video Solution

82. Evaluate the following sum (The base two in each case)

$11100 \div 111$

Watch Video Solution

83. Evaluate the following sum (The base two in each case)

$10001 + 1000$

Watch Video Solution

84. Evaluate the following sum (The base two in each case)

$11101 + 10111$

Watch Video Solution

85. Evaluate the following sum (The base two in each case)

$111111 + 11110$

Watch Video Solution

86. Evaluate the following sum (The base two in each case)

$111111 + 101010$

Watch Video Solution

87. Evaluate the following sum (The base two in each case)

$1011001 + 1110111$

Watch Video Solution

88. Evaluate the following sum (The base two in each case)

$110 \div 110 + 11$

Watch Video Solution

89. Evaluate the following sum (The base two in each case)

$1110 + 101 + 1010$

Watch Video Solution

90. Evaluate the following sum (The base two in each case)

$1010 + 1101 + 101$

Watch Video Solution

91. Evaluate the following sum (The base two in each case)

$10101+1001+10110$

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92. Evaluate the following sum (The base two in each case)

$1110 + 101 + 1001 + 110$

Watch Video Solution

93. Evaluate the following sum (The base two in each case)

$10010 + 1010 + 11010 + 10101$

Watch Video Solution

94. Evaluate the following sum (The base two in each case)

$11011 \div 1001 + 100 + 10101$

Watch Video Solution

95. Evaluate the following sum (The base two in each case)

$101010 + 10101 + 110101 + 101011$

Watch Video Solution

96. Evaluate the following subtractions (base in each case is two)

$11 - 1$

Watch Video Solution

97. Evaluate the following subtractions (base in each case is two)

$11 - 10$

Watch Video Solution

98. Evaluate the following subtractions (base in each case is two)

$110 - 100$

Watch Video Solution

99. Evaluate the following subtractions (base in each case is two)

$110 - 101$

Watch Video Solution

100. Evaluate the following subtractions (base in each case is two)

$1100 - 101$

Watch Video Solution

101. Evaluate the following subtractions (base in each case is two)

$111 - 101$

Watch Video Solution

102. Evaluate the following subtractions (base in each case is two)

$1110 - 1010$

Watch Video Solution

103. Evaluate the following subtractions (base in each case is two)

$1000 - 101$

Watch Video Solution

104. Evaluate the following subtractions (base in each case is two)

$111010 - 10100$

Watch Video Solution

105. Evaluate the following subtractions (base in each case is two)

$11001101 - 110101$

Watch Video Solution

106. Evaluate the following subtractions (base in each case is two)

$10101 - 1010$

Watch Video Solution

107. Evaluate the following subtractions (base in each case is two)

$101101 - 1011$

Watch Video Solution

108. Evaluate the following subtractions (base in each case is two)

$11001101 - 1110000$

Watch Video Solution

109. Evaluate the following subtractions (base in each case is two)

$11110101 - 1101110$

Watch Video Solution

110. Evaluate the following subtractions (base in each case is two)

$101100110 - 10011011$

Watch Video Solution

111. Evaluate the following subtractions (base in each case is two)

$110111010 - 101111$

Watch Video Solution

112. Evaluate the following subtractions (base in each case is two)

$11101011101 - 1111111110$

Watch Video Solution

113. Evaluate the following subtractions (base in each case is two)

$110010101 - 1011110$

Watch Video Solution

114. Simplyfy (the base is two in each case)

$110 - 1000 + 11$

Watch Video Solution

115. Simplyfy (the base is two in each case)

$1010 - 1111 + 111$

Watch Video Solution

116. Simplyfy (the base is two in each case)

$1100 - 10000 + 1000$

Watch Video Solution

117. Simplyfy (the base is two in each case)

$1011 - 1101 + 111$

Watch Video Solution

118. Simplyfy (the base is two in each case)

$10000 - 10100 + 1000$

Watch Video Solution

119. Simplyfy (the base is two in each case)

$1110 - 10101 + 1100$

Watch Video Solution

120. Simplyfy (the base is two in each case)

$1010 + 110 - 101 - 111$

Watch Video Solution

121. Simplify (the base is two in each case)

$1000 + 1011 - 100 - 1001$

Watch Video Solution

122. Simplyfy (the base is two in each case)

$1101 + 1010 + 11$

Watch Video Solution

123. Simplify (the base is two in each case)

$110 + 1110 - 1000 - 1111$

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124. Evaluate the following (the base in two in each case) 101×111

Watch Video Solution

125. Evaluate the following (the base in two in each case) 111×111

Watch Video Solution

126. Evaluate the following (the base in two in each case) 1001×101

Watch Video Solution

127. Evaluate the following (the base in two in each case) 111×110

Watch Video Solution

128. Evaluate the following (the base in two in each case) 1010×101

Watch Video Solution

129. Evaluate the following (the base in two in each case) 110×111

Watch Video Solution

130. Evaluate the following (the base in two in each case) 1101×1000

Watch Video Solution

131. Evaluate the following (the base in two in each case) 1110×110

Watch Video Solution

132. Evaluate the following (the base in two in each case) 1100×1100

Watch Video Solution

133. Evaluate the following (the base in two in each case) 1101×1011

Watch Video Solution

134. Evaluate the following (the base in two in each case) 1111×1100

Watch Video Solution

135. Evaluate the following (the base in two in each case) 10000×1101

Watch Video Solution

136. Evaluate the following (the base in two in each case) 1010×10001

Watch Video Solution

137. Evaluate the following (the base in two in each case) 110110×110011

Watch Video Solution

138. Evaluate the following (the base in two in each case) 110010×11011

Watch Video Solution

139. Evaluate the following (the base in two in each case) $1110 \div 101$

Watch Video Solution

140. Evaluate the following (the base in two in each case) $1100 \div 11$

Watch Video Solution

141. Evaluate the following (the base in two in each case) $1111 \div 100$

Watch Video Solution

142. Evaluate the following (the base in two in each case) $10101 \div 110$

Watch Video Solution

143. Evaluate the following (the base in two in each case) $100001 \div 111$

Watch Video Solution

144. Evaluate the following (the base in two in each case) $101111 \div 110$

Watch Video Solution

145. Evaluate the following (the base in two in each case) $11011 \div 1100$

Watch Video Solution

146. Evaluate the following (the base in two in each case) $111101 \div 1110$

Watch Video Solution

147. Evaluate the following (the base in two in each case) $1001000 \div 1010$

Watch Video Solution

148. Evaluate the following (the base in two in each case) $1010100 \div 1111$

Watch Video Solution

149. Evaluate the following (the base in two in each case) $1111100001 \div 1011001$

Watch Video Solution

150. Evaluate the following (the base in two in each case) $100110101001 \div 101000$

Watch Video Solution

151. Simplyfy, (the base is two in each cases)

$(111 + 101) \times 11$

Watch Video Solution

152. Simplyfy, (the base is two in each cases)

$(110 + 11) \times 101$

Watch Video Solution

153. Simplyfy, (the base is two in each cases)

$(1011 - 110) \times 101$

Watch Video Solution

154. Simplyfy, (the base is two in each cases)

$(1001 + 111) \div 100$

Watch Video Solution

155. Simplyfy, (the base is two in each cases)

$(1100 + 1001) \div 111$

Watch Video Solution

156. Simplyfy, (the base is two in each cases)

$(11101 - 100) \div 101$

Watch Video Solution

157. Simplyfy, (the base is two in each cases)

$(11111 - 1001) \div 100$

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Exercise

1. Name the following numerals in Indian place value system as well as in International Place value system.

7525625

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2. Name the following numerals in Indian place value system as well as in International Place value system.

825329010

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3. Name the following numerals in Indian place value system as well as in International Place

value system.

90050061020

4. Name the following numerals in Indian place value system as well as in International Place value system.

72050263013

5. Name the following numerals in Indian place value system as well as in International Place value system.

523541312123

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6. Express the following number numerically

Eighty lakh seventy thousand twenty five

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7. Express the following number numerically

Seventh Crore Three Lakh two Thousand and Five.

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8. Express the following number numerically

Forty two Arab Three crore seven lakh Three Thousand four hundred two.

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9. Express the following number numerically

Fifty one Kharab two Arabsixty one crore Thirty two lakh twenty one thousand sixty nine.

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10. Express the following number numerically

Three hundred forty million, seven hundred thirty two thousand eight hundred twenty one.

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11. Express the following number numerically

Fifty one billion twenty one million thirty two thousand sixty.

Watch Video Solution

12. Express the following number numerically

Seven trillion one hundred forty billion six million two hundred thirty two thousand seventy two.

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13. Name the number of Eighty lakh seventy thousand twenty five to Fifty one Kharab two Arabsixty one crore Thirty two lakh twenty one thousand sixty nine in international system.

 Watch Video Solution

14. Name the number of Forty two Billion Thirty Million seven hundred three thousand four hundred two and Fifty one billion twenty

one million thirty two thousand sixty in Indian system.

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15. Write the place values of the digits within small squares of the following numbers in Inidian place value system and in international place value system.

$2[7]42975$

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16. Write the place values of the digits within small squares of the following numbers in Indian place value system and in international place value system.

$[2]43[3]56012$

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17. Write the place values of the digits within small squares of the following numbers in Indian place value system and in international

place value system.

$[67]52431014$

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18. Write the place values of the digits within small squares of the following numbers in Indian place value system and in international place value system.

$[67]52431014$

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19. Express the following number in Roman numerals system

85

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20. Express the following number in Roman numerals system

99

Watch Video Solution

21. Express the following number in Roman numerals system

459

Watch Video Solution

22. Express the following number in Roman numerals system

999

Watch Video Solution

23. Express the following number in Roman numerals system

1249

Watch Video Solution

24. Express the following number in Roman numerals system

3464

Watch Video Solution

25. Express the following number in Roman numerals system

6261

Watch Video Solution

26. Express the following numbers in Roman numerals system

10,499

Watch Video Solution

27. Express the following number in Roman numerals system

6478

Watch Video Solution

28. Express the following number in Roman numerals system

9601

Watch Video Solution

29. Express the following number in common numeral system

CIX

Watch Video Solution

30. Express the following number in common numeral system

XLIX

Watch Video Solution

31. Express the following number in common numeral system

CCCXCIX

Watch Video Solution

32. Express the following number in common numeral system

DCLXI

Watch Video Solution

33. Express the following number in common numeral system

MCV

34. Express the following number in common numeral system

MMCCCXC

35. Express the following number in common numeral system

$\overline{C}DLC$

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36. Express the following number in common numeral system

$\overline{V}DLIX$

Watch Video Solution

37. Express the following number in common numeral system

CLXV

Watch Video Solution

38. Express the following number in common numeral system

XIIDII

Watch Video Solution

39. Evaluate the following in Roman numerals.

$XXX + XL$

Watch Video Solution

40. Evaluate the following in Roman numerals.

$CL + XV$

Watch Video Solution

41. Evaluate the following in Roman numerals.

$XC + L + V$

Watch Video Solution

42. Evaluate the following in Roman numerals.

$\mathbb{C} + XC - LXX$

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43. Evaluate the following in Roman numerals.

$D + CD + DC$

Watch Video Solution

44. Evaluate the following in Roman numerals.

$LX + XL - XX$

Watch Video Solution

45. Evaluate the following in Roman numerals.

$XX + XXX + XC - XV$

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46. Find the correct answer giving proper reason

$ICX = 109 = CIX$

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47. Find the correct answer giving proper reason

$I\mathbb{C} = 199 = CXCIX$

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48. Find the correct answer giving proper reason

$VIX = 5 + 10 - 1 = 14 = XIV$

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49. Find the correct answer giving proper reason

$XD = 490 = CDXC$

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50. Find the correct answer giving proper reason

$LM = 1000 - 50 = 950 = CML$

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51. Find the correct answer giving proper reason

$VL = 50 - 5 = 45 = XLV.$

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52. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c) base seven and (d) base eight

25

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53. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c)

base seven and (d) base eight

32

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54. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c) base seven and (d) base eight

64

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55. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c) base seven and (d) base eight

76

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56. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c)

base seven and (d) base eight

104

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57. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c) base seven and (d) base eight

50

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58. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c) base seven and (d) base eight

1562

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59. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c)

base seven and (d) base eight

629

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60. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c) base seven and (d) base eight

749

Watch Video Solution

61. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c) base seven and (d) base eight

1042

Watch Video Solution

62. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c)

base seven and (d) base eight

1268

Watch Video Solution

63. Express the following numbers of common system of numeration into a system of numeration of (a) base three (b) base five (c) base seven and (d) base eight

1042

Watch Video Solution

64. Express the following number of common number system to a number system of (a) base three (b) base five

2578

Watch Video Solution

65. Express the following numbers of common system of numeration into a system of numeration (a) base eleven (b) base twelve

9190

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66. Express the following numbers of common system of numeration into a system of numeration (a) base eleven (b) base twelve

11731

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67. Determine the decimal conversion of the following numbers of different numeration

system.

$(233)_{eight}$.

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68. Determine the decimal conversion of the following numbers of different numeration system.

$(125)_{seven}$.

Watch Video Solution

69. Determine the decimal conversion of the following numbers of different numeration system.

$(341)_{five}$.

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70. Determine the decimal conversion of the following numbers of different numeration system.

$(101112)_{three}$.

Watch Video Solution

71. Determine the decimal conversion of the following numbers of different numeration system.

$(1100100)_{two}$.

Watch Video Solution

72. Determine the decimal conversion of the following numbers of different numeration

system.

$(1100110)_{two}$.

Watch Video Solution

73. Determine the decimal conversion of the following numbers of different numeration system.

$(6150)_{seven}$

Watch Video Solution

74. Determine the decimal conversion of the following numbers of different numeration system.

$(6244)_{eight}$.

Watch Video Solution

75. Determine the decimal conversion of the following numbers of different numeration system.

$(1636)_{eight}$.

Watch Video Solution

76. Determine the decimal conversion of the following numbers of different numeration system.

$(31001)_{five}$.

Watch Video Solution

77. Determine the decimal conversion of the following numbers of different numeration

system.

$(3112)_{four}$.

Watch Video Solution

78. Determine the decimal conversion of the following numbers of different numeration system.

$(21130)_{four}$.

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79. r' is the decimal of a system of numeration.

Determine r, when

The decimal conversion of $(121)_r$ is 16

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80. r' is the decimal of a system of numeration.

Determine r, when

The decimal conversion of (123)_r` is 38.

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81. r' is the decimal of a system of numeration.

Determine r, when

The decimal conversion of $(124)_r$ is 52.

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82. r' is the decimal of a system of numeration.

Determine r, when

The decimal conversion of $(144)_r$ is 100.

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83. 2 and 3 are numerals of both the numerals systems whose base are x and $x+1$. If the decimal conversion of $(32)_x$ is y and that of $(23)_{x+1}$ is $y-1$, determine x and y.

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84. x is numeral of two numeral systems whose basis are p and $p+2$. A is a two digit number consists x alone. If the decimal conversion of $(A)_p$ is 10 and that of $(A)_{p+2}$ is 14, then determine x and p.

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85. 1 and 2 are the numerals of both numeral system whose basis are x and $2x+1$. If decimal conversion of $(21)_x$ is y, then show that the decimal conversion of $(21)_{2x+1}$ is $2y+1$.

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86. 2 and 3 are the numerals of both the numeral systems whose basis are x and $x+1$.

If th decimal conversion of $(23)_x$ is A then show that the decimal conversion of $(23)_{x+1}$ is $A+2$.

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87. Express the following decimal and vulgar fraction in the numeral systems whose bases are indicated.

$.3872$ to the base five.

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88. Express the following decimal and vulgar fraction in the numeral systems whose bases are indicated.

$.5625$ to the base six.

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89. Express the following decimal fraction in the numeral systems whose bases are indicated.

$.46875$ to the base eight.

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90. Express the following decimal and vulgar fraction in the numeral systems whose bases are indicated.

$\frac{11}{15}$ to the base three.

Watch Video Solution

91. Express the following decimal and vulgar fraction in the numeral systems whose bases

are indicated.

$\frac{11}{15}$ to the base three.

Watch Video Solution

92. Express the following decimal and vulgar fraction in the numeral systems whose bases are indicated.

$\frac{3}{7}$ to the base three.

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93. Express the following decimal and vulgar fraction in the numeral systems whose bases are indicated.

$\frac{32}{35}$ to the base seven.

Watch Video Solution

94. Express the following radix fractions whose bases are indicated into the decimal system.

$(.05343)_{six}$.

Watch Video Solution

95. Express the following radix fractions whose bases are indicated into the decimal system.

$(.05343)_{six}$.

Watch Video Solution

96. Express the following numbers in the numeral system whose bases are indicated.

213.3104 to the base five.

Watch Video Solution

97. Express the following numbers in the numeral system whose bases are indicated.

6233.21875 to the base eight.

Watch Video Solution

98. Express the following numbers in the numeral system whose bases are indicated.

$1073\frac{13}{16}$ to the base six.

Watch Video Solution

99. Express the following numbers in the numeral system whose bases are indicated.

$981\frac{32}{125}$ to the base five.

Watch Video Solution

100. Express the following numbers into the decimal system.

$(434.3213)_{six}$.

Watch Video Solution

101. Express the following numbers into the decimal system.

$(716.16)_{eight}$.

Watch Video Solution