

Two-step equations - fractions

Solve each equation.

$$1) -\frac{1}{3}x + 4\frac{5}{6} = 4\frac{1}{3}$$

$$2) 2 + 1\frac{1}{7}v = \frac{26}{105}$$

$$3) 1\frac{1}{2} - n = 11\frac{1}{7}$$

$$4) -\frac{1}{4} + 5a = 1\frac{5}{12}$$

$$5) 3\frac{2}{5} + 3k = 20\frac{13}{20}$$

$$6) -2n + \frac{5}{6} = 28\frac{5}{6}$$

$$7) -1\frac{4}{5}x - 1\frac{3}{4} = \frac{1}{20}$$

$$8) \frac{2}{5} + 2\frac{1}{4}x = -1\frac{1}{10}$$

$$9) -2m - 2\frac{5}{6} = 9\frac{1}{6}$$

$$10) -3\frac{3}{8}p + 4\frac{3}{7} = 11\frac{5}{28}$$

$$11) -2 + 1\frac{1}{2}x = -4\frac{11}{14}$$

$$12) \frac{2}{5} - \frac{1}{2}n = -\frac{13}{30}$$

$$13) -\frac{3}{5}b + 3\frac{1}{2} = -1\frac{81}{130}$$

$$14) -\frac{4}{3}r - 1\frac{1}{2} = -1\frac{1}{12}$$

$$15) -\frac{9}{5} - 2\frac{1}{2}v = 2\frac{7}{10}$$

$$16) -2\frac{5}{6}b + \frac{13}{8} = -2\frac{5}{8}$$

$$17) -\frac{4}{3} - \frac{12}{7}n = 2\frac{50}{147}$$

$$18) 2\frac{1}{2}x - \frac{11}{8} = 12\frac{83}{88}$$

$$19) 2\frac{1}{6}x - 1\frac{5}{6} = -6\frac{1}{6}$$

$$20) \frac{5}{6}x - 1\frac{5}{7} = 4\frac{115}{231}$$

$$21) \frac{1}{2}a - 3\frac{1}{3} = -2\frac{5}{12}$$

$$22) -2\frac{1}{8}k + 4\frac{3}{4} = 8\frac{63}{80}$$

23) $-\frac{3}{7}p + \frac{1}{2} = 1\frac{61}{70}$

24) $-\frac{4}{5}x + 1 = -\frac{1}{75}$

25) $-\frac{9}{8} - 2\frac{1}{3}n = -17\frac{65}{264}$

26) $-1\frac{1}{3} + 1\frac{2}{3}m = -\frac{1}{42}$

27) $-\frac{10}{7}x - 2\frac{1}{3} = -\frac{13}{21}$

28) $-\frac{9}{5} + 4\frac{3}{7}r = 14\frac{293}{315}$

29) $-3\frac{7}{8} - \frac{1}{6}n = -3\frac{17}{24}$

30) $-\frac{1}{2} + 2v = \frac{23}{26}$

31) $3\frac{2}{5}b - \frac{1}{2} = 30\frac{1}{10}$

32) $\frac{9}{5}x + \frac{5}{4} = 11\frac{1}{20}$

33) $-3\frac{1}{4} - 2\frac{1}{2}n = -2\frac{5}{12}$

34) $-3\frac{2}{5} + 2x = -7\frac{1}{40}$

35) $-3\frac{3}{8} + \frac{6}{7}a = -1\frac{19}{392}$

36) $\frac{6}{5}k + \frac{3}{4} = 8\frac{7}{20}$

37) $3\frac{1}{2} + 2\frac{4}{5}x = \frac{7}{26}$

38) $-\frac{3}{2}n - \frac{5}{3} = \frac{5}{24}$

39) $\frac{13}{7}p - \frac{10}{7} = -5\frac{1}{7}$

40) $2 + \frac{2}{5}m = 3\frac{29}{35}$

41) $\frac{4}{3}x + \frac{1}{2} = -\frac{11}{18}$

42) $-\frac{2}{7}n - 1\frac{2}{3} = -3\frac{43}{168}$

43) $1 + 2\frac{1}{4}b = -2\frac{39}{44}$

44) $-\frac{3}{2}x + \frac{2}{3} = \frac{2}{3}$

45) $-\frac{13}{8} - n = \frac{7}{40}$

46) $2 + \frac{2}{3}r = 3\frac{1}{7}$

47) $-2\frac{1}{2} - \frac{8}{5}v = -1\frac{3}{10}$

48) $-2 - 3\frac{1}{8}x = -17\frac{95}{112}$

49) $-3\frac{1}{3} - 3\frac{3}{5}b = -18\frac{52}{75}$

50) $1\frac{1}{8} - \frac{5}{8}a = 1\frac{1}{8}$

51) $-7 + \frac{5}{6}p = -7$

52) $-\frac{8}{5}x + \frac{10}{7} = 6\frac{184}{315}$

53) $-8\frac{1}{6} - 1\frac{3}{7}k = -6\frac{47}{84}$

54) $-2 + \frac{3}{4}n = -3\frac{1}{2}$

55) $2\frac{4}{7}x + 1\frac{1}{6} = -7\frac{29}{294}$

56) $2\frac{1}{2} + 1\frac{1}{2}m = 4\frac{1}{2}$

57) $\frac{4}{3} - \frac{3}{2}r = 3\frac{19}{48}$

58) $-\frac{10}{7}x - 3\frac{1}{2} = -3\frac{1}{42}$

59) $1\frac{1}{6} + 4\frac{1}{4}b = -7\frac{1}{3}$

60) $-\frac{5}{3}n + \frac{11}{7} = -1\frac{68}{273}$

61) $4\frac{7}{8}v + 3\frac{1}{2} = 45\frac{11}{32}$

62) $-1 + \frac{1}{2}x = 2\frac{3}{14}$

63) $-\frac{11}{7}n + 3\frac{3}{5} = 5\frac{1}{35}$

64) $-2\frac{3}{8}a - 1\frac{3}{8} = -12\frac{41}{48}$

65) $1\frac{1}{6}k - 1\frac{5}{8} = -1\frac{11}{12}$

66) $-2 - n = -\frac{7}{10}$

67) $-7 + \frac{2}{3}x = -7\frac{4}{15}$

68) $8 + \frac{2}{3}x = 8\frac{2}{11}$

69) $-3\frac{1}{4}n - 1 = -\frac{15}{28}$

70) $-1\frac{1}{5} - 3\frac{2}{7}p = -4\frac{17}{35}$

71) $-\frac{2}{7} - \frac{4}{5}m = -2\frac{64}{175}$

72) $1\frac{1}{4} - 3\frac{4}{7}x = 11\frac{1}{14}$

73) $-\frac{9}{5} + \frac{7}{4}b = -4\frac{3}{40}$

74) $2\frac{1}{7} + 3\frac{2}{3}r = 19\frac{26}{35}$

75) $2\frac{2}{7}x + \frac{13}{8} = 2\frac{27}{56}$

76) $\frac{7}{6}n - 3\frac{1}{6} = -1\frac{1}{8}$

77) $2a + 7 = 7\frac{3}{7}$

78) $\frac{1}{3}v - 1\frac{1}{3} = \frac{5}{6}$

79) $2\frac{2}{3}x + 1\frac{5}{6} = -1\frac{19}{78}$

80) $-\frac{7}{5} + \frac{2}{3}x = -2\frac{1}{15}$

81) $2p - 2 = -4$

82) $-\frac{9}{7} - 2\frac{1}{6}k = -4\frac{11}{63}$

83) $-1\frac{2}{3}a + \frac{5}{4} = -4\frac{31}{36}$

84) $-3\frac{1}{7}x + \frac{1}{3} = -13\frac{23}{42}$

85) $1 + 3\frac{1}{2}n = \frac{1}{2}$

86) $-1\frac{3}{5} + \frac{11}{8}m = \frac{13}{20}$

87) $-1\frac{4}{5} + \frac{1}{8}r = -1\frac{217}{240}$

88) $-\frac{2}{5}n - \frac{3}{2} = -\frac{7}{10}$

89) $3\frac{1}{5}x - \frac{9}{7} = 11\frac{5}{7}$

90) $-\frac{1}{5} - 1\frac{3}{8}b = -4\frac{13}{40}$

91) $-1 + 3\frac{2}{5}v = 33$

92) $-2\frac{1}{2}x + 1\frac{4}{7} = 1\frac{4}{7}$

93) $\frac{5}{4} - \frac{1}{4}n = 1\frac{2}{9}$

94) $-\frac{4}{5} + \frac{3}{2}a = -1\frac{11}{20}$

95) $-1\frac{1}{6} + 1\frac{1}{2}x = 7\frac{59}{60}$

96) $-1\frac{1}{5} - 1\frac{4}{5}k = 5\frac{22}{25}$

97) $\frac{12}{7} + \frac{1}{2}n = 1\frac{3}{112}$

98) $-2\frac{3}{4} - \frac{3}{2}x = -3\frac{47}{52}$

99) $\frac{1}{2} + 1\frac{2}{3}p = -2\frac{20}{21}$

100) $\frac{15}{8}m + 1\frac{7}{8} = -1\frac{7}{8}$

101) $8 = 2n - 2$

102) $36\frac{5}{8} = 2x + 2\frac{5}{8}$

103) $-8\frac{1}{2} = -2b - \frac{5}{4}$

104) $-1\frac{43}{45} = -2\frac{5}{9} - \frac{3}{10}r$

105) $7\frac{9}{14} = 5\frac{1}{7} - \frac{5}{3}n$

106) $20\frac{59}{81} = 2\frac{1}{9}a + \frac{5}{9}$

107) $-15\frac{34}{45} = \frac{1}{9} - \frac{7}{8}x$

108) $2\frac{25}{56} = \frac{2}{7}x + 2$

109) $-7\frac{2}{7} = \frac{7}{4} + 2\frac{7}{8}v$

110) $6\frac{131}{156} = -\frac{1}{4} + 1\frac{1}{6}x$

111) $35 = -1 - 4a$

112) $-5\frac{5}{8} = \frac{1}{2}k + \frac{7}{8}$

113) $10\frac{1}{14} = 4\frac{3}{4}x + \frac{4}{7}$

114) $-5\frac{401}{1071} = -3\frac{7}{9} - \frac{10}{7}p$

115) $28\frac{41}{60} = \frac{1}{10} + 7n$

116) $-2 = -\frac{2}{3}m - \frac{5}{3}$

117) $-13\frac{3}{4} = -2\frac{2}{5}x + \frac{7}{5}$

118) $5\frac{23}{52} = -2\frac{3}{4} + \frac{3}{4}n$

119) $1\frac{254}{315} = \frac{8}{7}r + \frac{3}{5}$

120) $13\frac{5}{18} = 3\frac{5}{6} + 5\frac{2}{3}b$

121) $7\frac{53}{120} = 5\frac{1}{6}v + 1\frac{1}{2}$

122) $5\frac{13}{20} = 5\frac{2}{5} + \frac{1}{4}x$

123) $-27\frac{1}{9} = 5\frac{8}{9} + 2\frac{3}{4}n$

124) $-\frac{31}{40} = 1\frac{5}{8}a + 1\frac{1}{2}$

125) $-8\frac{11}{36} = -3\frac{5}{9} - \frac{1}{2}k$

126) $3\frac{7}{36} = \frac{7}{4} + \frac{1}{2}x$

127) $-10\frac{7}{8} = -\frac{3}{8} - 9x$

128) $3\frac{11}{48} = -1\frac{5}{8}n + 5\frac{2}{3}$

129) $1\frac{16}{35} = \frac{2}{5}m + 1\frac{6}{7}$

130) $-3\frac{19}{40} = -1\frac{1}{2}p + 2$

131) $2\frac{31}{35} = 1 + \frac{2}{5}n$

132) $-5\frac{8}{21} = -\frac{12}{7} - \frac{1}{3}b$

133) $-8\frac{41}{100} = -1 + 3\frac{9}{10}x$

134) $55\frac{2}{15} = 5\frac{4}{5} + 2\frac{2}{3}r$

135) $-7\frac{1}{5} = -7\frac{1}{5} - \frac{7}{6}n$

136) $-11\frac{17}{22} = -2\frac{1}{2} - x$

137) $1\frac{1}{6} = -\frac{3}{10} - \frac{4}{5}a$

138) $\frac{2}{3} = \frac{5}{3} + \frac{3}{2}v$

139) $-1\frac{199}{420} = -3\frac{6}{7} + 2\frac{1}{6}x$

140) $-\frac{1}{2} = -2\frac{3}{4}n - \frac{1}{2}$

141) $10\frac{19}{24} = -3\frac{1}{2}x - \frac{7}{4}$

142) $-3\frac{25}{64} = -\frac{13}{8} - \frac{1}{4}k$

143) $7\frac{123}{440} = 3\frac{7}{10} - 1\frac{7}{8}x$

144) $-\frac{13}{56} = -\frac{7}{4}p - 2\frac{6}{7}$

145) $1 = \frac{3}{4} + \frac{1}{3}n$

146) $31\frac{203}{216} = 3\frac{1}{6}m + 5\frac{3}{8}$

147) $2\frac{2}{15} = 1\frac{2}{3} + \frac{4}{5}x$

148) $-6\frac{7}{75} = -\frac{9}{5} + 2\frac{4}{5}r$

149) $-5\frac{3}{10} = -1\frac{9}{10}b - \frac{9}{5}$

150) $-80\frac{52}{63} = \frac{2}{7} - 10n$

151) $-8\frac{5}{8} = 2x - 4\frac{5}{8}$

152) $-4\frac{331}{560} = 4\frac{1}{7}v + 2\frac{2}{5}$

153) $17\frac{1}{40} = 3\frac{5}{6}a - 10$

154) $1\frac{142}{255} = \frac{4}{3}k + \frac{7}{5}$

155) $-7\frac{8}{15} = 3\frac{2}{5} - 2p$

156) $5\frac{9}{22} = \frac{7}{6} - \frac{7}{6}n$

157) $\frac{1}{9} = 2n - 1\frac{8}{9}$

158) $-12\frac{23}{50} = 9 - 2\frac{9}{10}x$

159) $6\frac{29}{64} = 5\frac{1}{4}p - 1\frac{3}{4}$

160) $3\frac{645}{1064} = \frac{6}{7}m + \frac{9}{8}$

161) $13\frac{13}{40} = \frac{9}{10}x - 2\frac{1}{8}$

162) $\frac{13}{14} = \frac{10}{7} - 2n$

163) $43\frac{118}{153} = \frac{17}{9} + 4r$

164) $4\frac{251}{420} = 4\frac{5}{7} + 1\frac{1}{6}b$

165) $3\frac{7}{18} = -\frac{4}{3}x + 1\frac{2}{9}$

166) $3\frac{7}{10} = 4\frac{2}{5}a + 1\frac{1}{2}$

167) $-33\frac{69}{70} = 3\frac{6}{7}n + \frac{3}{2}$

168) $-11\frac{1}{12} = \frac{3}{4}x - 8\frac{1}{2}$

169) $-15\frac{20}{63} = -\frac{10}{7} - 2v$

170) $2\frac{17}{56} = 2\frac{5}{7}x - 3\frac{1}{8}$

171) $-20\frac{5}{9} = -2\frac{5}{9} - 2\frac{7}{10}n$

172) $2\frac{25}{28} = \frac{5}{3}k + \frac{1}{7}$

173) $-\frac{513}{560} = -1\frac{5}{8}p - \frac{3}{7}$

174) $\frac{193}{441} = 4\frac{5}{7}x + 1\frac{1}{9}$

175) $42\frac{33}{56} = -2\frac{3}{4}m + 9$

176) $\frac{7}{10} = \frac{1}{2} + \frac{1}{5}n$

177) $-13\frac{4}{11} = -1 + 8r$

178) $-6\frac{71}{90} = -2x - 3\frac{9}{10}$

179) $1\frac{29}{72} = -\frac{5}{4}n - \frac{8}{9}$

180) $\frac{71}{78} = \frac{1}{3}v + \frac{5}{6}$

181) $-34\frac{79}{120} = -3\frac{5}{8}b + 4\frac{1}{4}$

182) $1\frac{19}{30} = -1\frac{1}{6} + 2x$

183) $50\frac{239}{252} = -2\frac{4}{9} + 5\frac{3}{4}n$

184) $27\frac{269}{320} = 4\frac{1}{4}a + 4\frac{1}{5}$

185) $1 = 1 - \frac{1}{2}p$

186) $2\frac{4}{7} = -\frac{3}{2}k - \frac{3}{4}$

187) $-4\frac{5}{24} = -\frac{15}{8} - 2\frac{2}{3}x$

188) $13\frac{47}{315} = 2\frac{4}{5} + \frac{8}{7}n$

189) $-17\frac{11}{30} = -10 + 5\frac{1}{5}p$

190) $1\frac{11}{315} = \frac{10}{9} - 1\frac{1}{7}m$

191) $-8\frac{1}{45} = -\frac{9}{5} - \frac{2}{3}x$

192) $-\frac{31}{114} = -\frac{1}{3}n + \frac{1}{6}$

193) $7\frac{15}{32} = 5\frac{1}{2} - \frac{7}{8}x$

194) $-9\frac{1}{8} = 4\frac{3}{4} + 4\frac{5}{8}r$

195) $59\frac{137}{560} = -\frac{3}{10} + 5\frac{4}{7}b$

196) $-10\frac{1}{45} = \frac{4}{3} - 2\frac{1}{3}v$

197) $-5\frac{59}{80} = -\frac{3}{4}n - \frac{6}{5}$

198) $-\frac{44}{63} = \frac{4}{7}a - \frac{2}{3}$

199) $-5\frac{9}{50} = -8\frac{9}{10} + 3\frac{1}{10}x$

200) $16\frac{13}{15} = 1\frac{7}{10} - \frac{13}{9}x$

201) $\frac{5}{9}n + \frac{3}{7} = 1\frac{67}{189}$

202) $\frac{3}{7} + \frac{6}{7}k = 2\frac{1}{7}$

203) $23\frac{101}{120} = -\frac{1}{2} + 2\frac{3}{10}p$

204) $2n - \frac{5}{4} = -47\frac{1}{4}$

205) $50\frac{31}{55} = -1\frac{7}{11} + 5\frac{4}{5}x$

206) $70\frac{5}{63} = 6\frac{2}{7}r + 2\frac{1}{3}$

207) $-6\frac{45}{76} = -3\frac{3}{4} - 1\frac{1}{2}m$

208) $14\frac{377}{630} = 6\frac{9}{10} + \frac{5}{3}x$

209) $\frac{1}{3}b - 1 = 3\frac{5}{16}$

210) $\frac{1}{2} + 4\frac{5}{9}n = 2\frac{29}{90}$

211) $-8\frac{2}{5} = \frac{1}{2}v - 8$

212) $-7\frac{127}{170} = -\frac{7}{5}x + \frac{9}{10}$

213) $4\frac{421}{504} = -\frac{1}{6}a + 4\frac{4}{7}$

214) $-\frac{16}{21} = 3\frac{1}{3}n - 2\frac{2}{3}$

215) $8\frac{17}{132} = 4\frac{7}{12} + \frac{3}{11}k$

216) $-3\frac{14}{15} = -2 - 2\frac{9}{10}x$

217) $-15\frac{27}{44} = \frac{10}{11}p + \frac{3}{4}$

218) $\frac{1}{8}n + 5\frac{3}{8} = 5\frac{23}{64}$

219) $4\frac{1}{9} + \frac{16}{11}m = 6\frac{181}{495}$

220) $\frac{1}{15} = 2x - 1$

221) $-1 - 3\frac{1}{5}r = 4\frac{19}{25}$

222) $-2 - 5n = -58\frac{1}{4}$

223) $1\frac{1}{6} - 12b = -15\frac{79}{102}$

224) $1\frac{3}{4} - 7x = -166\frac{39}{44}$

225) $6\frac{7}{40} = 6\frac{7}{8} + \frac{3}{5}r$

226) $28\frac{1}{8} = \frac{4}{3}n + 4\frac{1}{8}$

227) $-1\frac{1}{6}a - \frac{4}{3} = -7\frac{55}{78}$

228) $6\frac{45}{56} = \frac{5}{7}x + 2\frac{1}{4}$

229) $\frac{3}{40} = -\frac{3}{5}v + \frac{3}{8}$

230) $\frac{17}{36} = \frac{5}{9} - \frac{1}{12}n$

231) $-16\frac{34}{45} = -1\frac{8}{9}x - \frac{5}{12}$

232) $-2\frac{3}{10}k - \frac{7}{4} = 1\frac{10}{11}$

233) $2\frac{5}{9} - \frac{5}{3}n = 1\frac{2}{9}$

234) $1\frac{591}{1232} = \frac{3}{11}x + \frac{10}{7}$

235) $3\frac{1}{8} + \frac{5}{9}p = 4\frac{7}{72}$

236) $-\frac{13}{12} + 1\frac{2}{5}m = -2\frac{151}{660}$

237) $105\frac{214}{345} = 11\frac{1}{3}r - 1\frac{4}{5}$

238) $-1 = -1\frac{1}{2}x - 2\frac{3}{4}$

239) $-16\frac{3}{4} = -\frac{3}{2}n - 1$

240) $-2\frac{4}{77} = \frac{4}{11}b - 2$

241) $14\frac{51}{95} = 1\frac{1}{5}v + \frac{1}{5}$

242) $5\frac{3}{7}n + \frac{1}{5} = -3\frac{118}{735}$

243) $6\frac{4}{7} + \frac{2}{3}x = 9\frac{157}{189}$

244) $\frac{2}{7} + 3\frac{2}{9}p = 18\frac{104}{315}$

245) $-\frac{9}{7}a + 4\frac{1}{2} = -1\frac{1}{2}$

246) $-4\frac{55}{72} = -\frac{8}{9} - 2k$

247) $\frac{17}{18} = -\frac{5}{9} - \frac{17}{12}x$

248) $-4\frac{21}{23} = -9 + 4\frac{3}{11}n$

249) $4\frac{2}{5} - \frac{19}{12}m = 6\frac{653}{720}$

250) $9 - \frac{7}{8}r = 10\frac{95}{192}$

251) $3\frac{89}{143} = 4\frac{6}{11} - x$

252) $3\frac{1}{22} = 3\frac{1}{6}n + 2\frac{6}{11}$

253) $-14\frac{65}{88} = -1 - \frac{13}{11}b$

254) $8\frac{23}{24} = 4\frac{1}{12}x + 4\frac{7}{8}$

255) $53\frac{6}{25} = 5\frac{3}{5}r + 2$

256) $6 - 2n = 10\frac{4}{15}$

257) $-\frac{1}{4}a - 3\frac{10}{11} = -5\frac{127}{176}$

258) $\frac{3}{8} + 5\frac{7}{8}v = -11\frac{3}{8}$

259) $-3\frac{5}{7}x + \frac{11}{6} = \frac{43}{66}$

260) $-\frac{5}{3} + 4n = 19\frac{1}{6}$

261) $-2\frac{7}{11} = -1 + \frac{6}{5}x$

262) $-3\frac{11}{12}x - 1 = 13\frac{19}{96}$

263) $-1\frac{3}{4} = -\frac{4}{3} - \frac{3}{2}p$

264) $-1\frac{9}{10}n + 6\frac{2}{7} = 3\frac{571}{700}$

265) $-\frac{106}{117} = \frac{8}{9} + 3\frac{1}{3}k$

266) $-\frac{1}{3}r - 1\frac{7}{10} = -1\frac{41}{90}$

267) $12\frac{3}{10} = -4x + 5\frac{3}{10}$

268) $59\frac{1263}{1760} = 6\frac{9}{10}n + \frac{7}{11}$

269) $-15\frac{1}{189} = -3\frac{1}{3}m + 3\frac{1}{7}$

270) $-\frac{1}{5} - \frac{5}{3}b = -1\frac{148}{315}$

271) $18\frac{15}{22} = \frac{1}{2} + 2v$

272) $4\frac{5}{11}x - 1\frac{3}{4} = 3\frac{877}{1012}$

273) $-\frac{10}{11}n - \frac{2}{3} = -7\frac{37}{66}$

274) $6\frac{3}{8}a - \frac{6}{5} = -5\frac{193}{240}$

275) $\frac{17}{9}k - \frac{3}{2} = 18\frac{25}{126}$

276) $2p + 11 = 17\frac{8}{19}$

277) $-3\frac{7}{12} + \frac{1}{2}x = -2\frac{25}{36}$

278) $-1\frac{1}{6} + \frac{6}{5}n = -5\frac{113}{210}$

279) $\frac{11}{6} + 6\frac{11}{12}m = 8\frac{3}{4}$

280) $-1\frac{4}{7} - \frac{1}{6}r = -3\frac{167}{672}$

281) $4b + 5\frac{1}{2} = -6\frac{15}{46}$

282) $7\frac{111}{200} = 2\frac{3}{8} + 3\frac{7}{10}x$

283) $-\frac{9}{16} = -\frac{11}{10} + 5\frac{3}{8}n$

284) $3\frac{1}{6} = 2 - 1\frac{1}{6}v$

285) $-\frac{3}{5}x + \frac{1}{8} = \frac{661}{680}$

286) $2\frac{5}{6}a + 1\frac{3}{4} = 3\frac{191}{228}$

287) $6\frac{3}{10} - \frac{2}{5}v = 4\frac{1}{20}$

288) $\frac{2}{11} - \frac{4}{3}n = -\frac{92}{99}$

289) $4\frac{1}{7}n + 12 = 4\frac{86}{105}$

290) $4\frac{21}{143} = 6\frac{5}{11} - \frac{5}{3}x$

291) $91\frac{43}{54} = \frac{1}{2} + 9\frac{4}{9}x$

292) $-32\frac{7}{10} = -2k - 11\frac{1}{5}$

293) $\frac{3}{2}p - \frac{1}{11} = 2\frac{10}{11}$

294) $\frac{2}{3}x - 2\frac{11}{12} = -1\frac{113}{132}$

295) $-6\frac{28}{33} = -\frac{5}{3} - \frac{3}{2}n$

296) $\frac{28}{33} = -\frac{6}{11}m + \frac{5}{12}$

297) $-1\frac{10}{11} + 1\frac{7}{11}x = 18\frac{8}{11}$

298) $29\frac{8}{63} = 1\frac{3}{7}r + \frac{5}{9}$

299) $-1\frac{5}{32} = -\frac{9}{8}n + \frac{1}{4}$

300) $5\frac{3}{5}b + 3\frac{2}{5} = -8\frac{43}{65}$

301) $151\frac{1418}{2499} = \frac{13}{17} + 9\frac{5}{7}x$

302) $-6\frac{223}{1102} = -2\frac{1}{2} - 3\frac{11}{19}v$

303) $3\frac{5}{8}n - \frac{5}{7} = 24\frac{103}{112}$

304) $5\frac{1}{3} - \frac{1}{5}a = 5\frac{61}{210}$

305) $-\frac{8}{9}k + 7\frac{5}{16} = 4\frac{343}{432}$

306) $2p + 1\frac{8}{15} = -1\frac{238}{285}$

307) $-1\frac{5}{6} - \frac{3}{2}x = -28\frac{29}{60}$

308) $-\frac{71}{119} = -1\frac{15}{17} - \frac{1}{14}n$

309) $5\frac{11}{14} - \frac{16}{9}m = 7\frac{65}{2898}$

310) $\frac{16}{19}r - \frac{18}{11} = \frac{1382}{3135}$

311) $13\frac{44}{63} = 3\frac{8}{9} + 5\frac{13}{18}x$

312) $58\frac{287}{640} = 4\frac{13}{16}n + \frac{13}{10}$

313) $\frac{3}{4}b + 4\frac{4}{19} = 4\frac{265}{988}$

314) $23\frac{201}{728} = \frac{9}{7}x - 2\frac{5}{13}$

315) $-18\frac{1346}{2635} = -\frac{8}{5}v + \frac{24}{17}$

316) $\frac{25}{19} - \frac{1}{4}n = 1\frac{1241}{1824}$

317) $1\frac{5}{14} + 7\frac{2}{5}k = 134\frac{39}{70}$

318) $-\frac{1}{5} - \frac{9}{10}x = -21\frac{4}{5}$

319) $-27\frac{247}{360} = -1\frac{7}{15}a - \frac{5}{18}$

320) $10\frac{1}{3} + 8\frac{1}{5}k = 12\frac{113}{375}$

321) $15\frac{3}{5} + \frac{13}{7}x = 18\frac{4}{7}$

322) $1\frac{107}{375} = 5\frac{2}{15}p - 2$

323) $11\frac{799}{1216} = 7\frac{1}{6}n + \frac{30}{19}$

324) $3\frac{3}{10} = -n + 2$

325) $-\frac{5}{14}x - 2\frac{5}{6} = -3\frac{181}{714}$

326) $-\frac{7}{8} - 2\frac{13}{20}m = -31\frac{7}{20}$

327) $30\frac{5}{9} = \frac{5}{9} + 12r$

328) $\frac{3}{11}n - \frac{5}{8} = -6\frac{5}{8}$

329) $7\frac{4}{9}x + 1\frac{2}{9} = 11\frac{157}{306}$

330) $-2\frac{3}{5}v + 9\frac{7}{8} = 14\frac{401}{760}$

331) $3\frac{161}{216} = \frac{1}{12}b + 2\frac{3}{4}$

332) $22\frac{68}{143} = \frac{25}{13}x - 2$

333) $-7 + 20a = 288$

334) $-3\frac{31}{84} = 6\frac{5}{14}x - \frac{5}{4}$

335) $3\frac{62}{399} = 2\frac{12}{19} - \frac{11}{12}k$

336) $-\frac{13}{10}p + \frac{2}{3} = \frac{77}{135}$

337) $21\frac{959}{988} = 3\frac{8}{13} + \frac{5}{4}x$

338) $-2\frac{1}{8}n + 3\frac{4}{17} = 5\frac{1357}{1360}$

339) $2\frac{14}{17}r - \frac{11}{14} = 52\frac{205}{238}$

340) $-1\frac{19}{36} = -1\frac{1}{3}m + \frac{23}{12}$

341) $\frac{24}{13} - 11v = -25\frac{250}{273}$

342) $-38\frac{3295}{7128} = \frac{17}{11} - 3\frac{7}{18}x$

343) $-2\frac{1}{27} = \frac{4}{3}n - 1$

344) $19\frac{1}{28} = 7\frac{1}{2} + 9\frac{1}{2}b$

345) $-32\frac{7}{52} = -3\frac{1}{8}n + 2$

346) $8\frac{1}{8}a + \frac{19}{12} = 13\frac{37}{48}$

347) $4\frac{121}{208} = 3\frac{13}{16} + 10x$

348) $11\frac{68}{1295} = \frac{3}{5}k - \frac{3}{7}$

349) $134\frac{109}{740} = \frac{17}{20} + 10\frac{7}{13}x$

350) $5\frac{2}{5} - \frac{1}{2}k = 5\frac{24}{35}$

351) $-5\frac{223}{600} = 2\frac{3}{5}x - \frac{9}{8}$

352) $\frac{5}{8} - 3\frac{1}{3}n = -60\frac{65}{88}$

353) $-\frac{19}{11}p + \frac{7}{13} = -34\frac{1249}{2002}$

354) $1\frac{1599}{2261} = \frac{3}{17}n + \frac{10}{7}$

355) $-2\frac{2}{19}x + \frac{4}{3} = -2\frac{110}{399}$

356) $-2\frac{21}{124} = 6\frac{1}{2} + 5\frac{3}{8}r$

357) $-12\frac{224}{513} = 5\frac{5}{9}m + 5\frac{10}{19}$

358) $4\frac{11}{20}b + \frac{1}{16} = 43\frac{137}{160}$

359) $-2\frac{2216}{4485} = -\frac{5}{13}x + \frac{11}{15}$

360) $9\frac{11}{13} = -\frac{8}{5}n + 9\frac{11}{13}$

$$361) -4\frac{3}{16} = -\frac{1}{6}v - 2\frac{5}{12}$$

$$362) -2\frac{653}{780} = -\frac{13}{12} + \frac{9}{10}x$$

$$363) -20\frac{623}{960} = -1\frac{13}{14}x + \frac{13}{15}$$

$$364) 20\frac{77}{640} = \frac{7}{4}a + \frac{1}{20}$$

$$365) \frac{4}{9} + 2k = 25\frac{13}{36}$$

$$366) -\frac{7}{4}m - 13 = -13\frac{7}{8}$$

$$367) -1\frac{7}{15} = 1\frac{11}{15}p + 2$$

$$368) -13\frac{818}{1197} = 1\frac{3}{19} + 7\frac{6}{7}x$$

$$369) -35\frac{55}{108} = -\frac{5}{3}n - \frac{5}{4}$$

$$370) 9\frac{1}{3} - \frac{3}{8}x = 10\frac{43}{300}$$

$$371) -5 = -3\frac{1}{3}r + \frac{5}{3}$$

$$372) \frac{3}{5}b + 4\frac{1}{3} = 8\frac{11}{30}$$

$$373) 9\frac{5}{8} + 10\frac{17}{20}n = -2\frac{527}{1000}$$

$$374) 7\frac{4}{15}x - 2\frac{1}{12} = 96\frac{1}{60}$$

$$375) 10\frac{1}{2}n + 4\frac{5}{8} = 8\frac{1}{8}$$

$$376) -\frac{26}{17}v + 4\frac{7}{8} = 7\frac{427}{680}$$

$$377) -3\frac{4}{5} - x = -4\frac{1}{95}$$

$$378) 8 + 5\frac{10}{11}k = 63\frac{15}{22}$$

$$379) 16\frac{53}{221} = -2\frac{4}{13}a + 14$$

$$380) -31\frac{82}{133} = \frac{19}{14} - \frac{7}{4}x$$

$$381) -\frac{9}{20}n - \frac{7}{13} = \frac{83}{715}$$

$$382) -\frac{99}{152} = \frac{7}{8} + 1\frac{10}{19}m$$

$$383) 6\frac{1}{6}p + 7\frac{5}{14} = 129\frac{25}{168}$$

$$384) 2\frac{1}{2} - 20r = -110\frac{1}{2}$$

$$385) 1\frac{7}{10} = 2x - \frac{3}{2}$$

$$386) 5\frac{9}{112} = 9\frac{3}{16} - n$$

387) $-\frac{31}{18} + 1\frac{1}{3}n = -3\frac{1}{18}$

388) $\frac{1}{2}x + \frac{9}{7} = 11\frac{13}{168}$

389) $3\frac{4779}{5320} = \frac{36}{19} - 3\frac{9}{14}m$

390) $\frac{5}{4} - \frac{8}{5}b = -11\frac{91}{180}$

391) $-6v + 8\frac{11}{14} = 17\frac{11}{14}$

392) $-4 + \frac{1}{2}a = -3\frac{17}{26}$

393) $39\frac{4793}{7163} = -\frac{8}{19} + 2\frac{7}{13}x$

394) $-2 + \frac{3}{11}k = 2\frac{125}{154}$

395) $-\frac{254}{357} = 2 - 2\frac{10}{17}x$

396) $2\frac{8}{13}p + 7\frac{5}{8} = 8\frac{97}{104}$

397) $4\frac{219}{518} = 2x + \frac{15}{14}$

398) $-2\frac{1}{3} + \frac{13}{7}m = 18\frac{163}{210}$

399) $10\frac{13}{17} + \frac{13}{20}r = 11\frac{2881}{7480}$

400) $-2\frac{53}{380} = -2\frac{17}{20} - \frac{3}{2}n$

401) $-3\frac{1}{4} - 16n = -516\frac{35}{124}$

402) $\frac{37}{19}x - \frac{13}{12} = -82\frac{199}{228}$

403) $\frac{2}{11} + 24v = 8\frac{97}{110}$

404) $-12\frac{1273}{1320} = 8\frac{2}{5}b - 1\frac{31}{33}$

405) $13\frac{15}{17} - 3\frac{12}{37}n = 7\frac{147}{629}$

406) $143\frac{2947}{3960} = -\frac{1}{8} + 4\frac{7}{30}x$

407) $-31\frac{43}{76} = -\frac{7}{4}a + \frac{4}{19}$

408) $-\frac{33}{35} - 2\frac{5}{21}x = -17\frac{5161}{7245}$

409) $\frac{20}{11}k - \frac{13}{7} = -4\frac{3}{77}$

410) $70\frac{41}{370} = 1\frac{3}{4}x + \frac{3}{10}$

411) $-88\frac{5}{14} = 2 + 1\frac{9}{14}n$

412) $-42\frac{257}{3444} = 15\frac{17}{28} - \frac{32}{21}x$

413) $17\frac{25}{29}p - \frac{10}{9} = 15\frac{365}{2871}$

414) $1193\frac{3}{32} = -18m + 5\frac{3}{32}$

415) $\frac{26}{31} + 24\frac{17}{25}n = -16\frac{2493}{10075}$

416) $-\frac{11}{31}r - \frac{1}{2} = -1\frac{1933}{3658}$

417) $6\frac{13}{22}m + 6\frac{1}{2} = 10\frac{23}{242}$

418) $-3\frac{1}{20}n + \frac{35}{36} = -107\frac{230}{261}$

419) $14\frac{11}{13}b + 12 = 10\frac{4}{195}$

420) $\frac{2647}{3960} = -\frac{3}{10} + \frac{13}{18}x$

421) $-21x + \frac{1}{19} = 38\frac{469}{608}$

422) $19\frac{21}{44} = -\frac{3}{11} - \frac{1}{4}x$

423) $5\frac{23}{62} = -\frac{6}{25}v + 6\frac{9}{10}$

424) $12\frac{11}{12} + 8\frac{1}{2}a = 92\frac{13}{18}$

425) $-\frac{11}{18} = -x - 2$

426) $-\frac{19}{13} + 17p = 100\frac{129}{650}$

427) $-26\frac{599}{5200} = 19\frac{3}{10}k + 9\frac{13}{16}$

428) $\frac{4}{3}n + 7\frac{3}{22} = 9\frac{3}{22}$

429) $\frac{1}{6} - m = -23\frac{107}{204}$

430) $-\frac{71}{38}r + 7\frac{29}{32} = 10\frac{12205}{16416}$

431) $-5\frac{2987}{3315} = -\frac{22}{15} + \frac{21}{17}x$

432) $530\frac{23}{34} = 1 + 7\frac{23}{34}n$

433) $-49\frac{235}{594} = -\frac{23}{27}b + \frac{19}{22}$

434) $\frac{9}{20} + 3\frac{3}{34}x = 4\frac{1}{5}$

435) $\frac{8}{5}a + 14\frac{13}{14} = 39\frac{1417}{5250}$

436) $712\frac{11}{80} = 25\frac{7}{16}n + 2\frac{1}{5}$

437) $-5\frac{1663}{2166} = 3\frac{29}{38} - \frac{26}{19}v$

438) $-\frac{28}{27}k - \frac{29}{33} = \frac{89}{4455}$

$$439) -\frac{23}{25}x - 2\frac{37}{38} = -2\frac{38129}{42750}$$

$$440) 2\frac{125}{322} = -\frac{11}{23}x + \frac{3}{2}$$

$$441) \frac{14}{9}n + \frac{11}{6} = 65\frac{331}{702}$$

$$442) -30m + 2\frac{13}{17} = 52\frac{13}{17}$$

$$443) 3\frac{17}{21}p + 30 = -118\frac{4}{7}$$

$$444) -1 + 9\frac{1}{7}b = 117\frac{338}{469}$$

$$445) 82\frac{4791}{7429} = \frac{35}{19}x + 17\frac{7}{23}$$

$$446) -24\frac{192}{475} = \frac{32}{25} + 12\frac{16}{19}n$$

$$447) 1\frac{62}{525} = \frac{2}{5} + \frac{29}{15}r$$

$$448) 10\frac{1}{4}x + 32 = 368\frac{57}{80}$$

$$449) 328\frac{683}{910} = -\frac{14}{39} + 19\frac{6}{35}n$$

$$450) \frac{1}{4}b + 2\frac{9}{16} = 2\frac{57}{560}$$

$$451) 13\frac{1}{8} + \frac{11}{6}v = 59\frac{91}{456}$$

$$452) 20\frac{1}{168} = 18\frac{1}{4}x - \frac{9}{7}$$

$$453) -3\frac{3}{4}x + 13\frac{2}{35} = -106\frac{221}{420}$$

$$454) 3\frac{1103}{1804} = 3\frac{1}{36}k + 2\frac{2}{33}$$

$$455) 34p + \frac{34}{21} = 616\frac{26}{189}$$

$$456) 108\frac{37}{72} = 6\frac{5}{36} - \frac{13}{8}a$$

$$457) \frac{361}{468} = -\frac{46}{39}x + \frac{1}{12}$$

$$458) 14\frac{17}{18}n + 14\frac{17}{24} = 476\frac{139}{228}$$

$$459) 4\frac{2}{9} + \frac{5}{4}r = 24\frac{37}{72}$$

$$460) 4\frac{8}{15}x + \frac{29}{23} = 157\frac{4202}{5175}$$

$$461) 10\frac{2546}{4725} = -\frac{28}{27} + 6\frac{2}{35}m$$

$$462) 2\frac{13}{28}n - 3\frac{7}{8} = -\frac{185}{392}$$

$$463) 42\frac{73}{84} = 4b + \frac{25}{14}$$

$$464) 16\frac{25}{33} + 10\frac{13}{23}v = -\frac{403}{759}$$

$$465) -\frac{2}{19}n - \frac{31}{19} = -1\frac{28}{57}$$

$$466) 8\frac{1}{3}k + 19\frac{11}{30} = 32\frac{727}{1110}$$

$$467) 16\frac{7864}{20615} = \frac{14}{31}x - \frac{4}{35}$$

$$468) -40x + \frac{11}{10} = 4\frac{81}{110}$$

$$469) 200\frac{497}{884} = 13\frac{7}{32}a + 3\frac{15}{26}$$

$$470) 32\frac{194}{2139} = \frac{43}{31}x + \frac{27}{31}$$

$$471) -4\frac{184}{187} = 14\frac{33}{34} - \frac{5}{6}n$$

$$472) 341\frac{8121}{9200} = 1\frac{13}{23} + 19\frac{7}{10}m$$

$$473) \frac{23}{15} - \frac{16}{11}p = -\frac{463}{825}$$

$$474) -\frac{1}{3} + 3\frac{1}{9}x = 4\frac{34}{81}$$

$$475) 15\frac{15}{19}n - \frac{1}{14} = 75\frac{6799}{7714}$$

$$476) 19\frac{1}{30} + \frac{1}{4}b = 18\frac{1213}{1290}$$

$$477) \frac{4}{77} = -\frac{1}{2}r - \frac{6}{7}$$

$$478) -\frac{23}{13} - \frac{4}{11}b = -15\frac{2998}{3289}$$

$$479) 12\frac{2107}{2508} = 20\frac{1}{4} - \frac{8}{33}x$$

$$480) -15\frac{115}{366} = 8\frac{2}{5}n - \frac{1}{6}$$

$$481) \frac{7859}{11400} = \frac{23}{40}v + \frac{8}{19}$$

$$482) 8\frac{18}{19}x - \frac{13}{10} = 364\frac{413}{790}$$

$$483) 19\frac{13}{32} = \frac{3}{2} + \frac{2}{3}x$$

$$484) 6\frac{5}{22}k + \frac{6}{5} = 150\frac{611}{1980}$$

$$485) 1\frac{1}{2} = \frac{3}{2} + \frac{1}{7}p$$

$$486) 12\frac{314}{825} = 12\frac{20}{33}a + 16\frac{2}{3}$$

$$487) -\frac{7}{18} - \frac{23}{19}x = -26\frac{9589}{11628}$$

$$488) -22\frac{291}{371} = 5\frac{6}{7} + 33n$$

$$489) -\frac{20}{21}m + 20\frac{11}{18} = 18\frac{221}{294}$$

$$490) 13 + 9\frac{18}{25}x = 7\frac{1416}{1775}$$

$$491) 59\frac{17}{60} = -\frac{1}{2} + \frac{17}{10}r$$

$$492) -\frac{8}{15} + 7\frac{13}{18}n = 186\frac{674}{1755}$$

$$493) 2v - \frac{23}{27} = 2\frac{128}{135}$$

$$494) 2\frac{553}{912} = \frac{5}{4}b + \frac{4}{19}$$

$$495) 35\frac{1}{29}x + 15\frac{4}{7} = 1211\frac{7148}{7511}$$

$$496) \frac{7}{9} - \frac{4}{3}a = -38\frac{20}{63}$$

$$497) -3\frac{13}{14} - \frac{20}{13}n = -6\frac{3}{182}$$

$$498) 1\frac{289}{936} = 1\frac{23}{24} - \frac{4}{9}k$$

$$499) 314\frac{9}{1078} = \frac{1}{2} + 9\frac{6}{7}x$$

$$500) -30\frac{1}{4}x + 4\frac{17}{26} = -47\frac{571}{598}$$

Two-step equations - fractions

Solve each equation.

$$1) -\frac{1}{3}x + 4\frac{5}{6} = 4\frac{1}{3} \quad \left\{1\frac{1}{2}\right\}$$

$$2) 2 + 1\frac{1}{7}v = \frac{26}{105} \quad \left\{-1\frac{8}{15}\right\}$$

$$3) 1\frac{1}{2} - n = 11\frac{1}{7} \quad \left\{-9\frac{9}{14}\right\}$$

$$4) -\frac{1}{4} + 5a = 1\frac{5}{12} \quad \left\{\frac{1}{3}\right\}$$

$$5) 3\frac{2}{5} + 3k = 20\frac{13}{20} \quad \left\{5\frac{3}{4}\right\}$$

$$6) -2n + \frac{5}{6} = 28\frac{5}{6}$$

$\{-14\}$

$$7) -1\frac{4}{5}x - 1\frac{3}{4} = \frac{1}{20}$$

$\{-1\}$

$$8) \frac{2}{5} + 2\frac{1}{4}x = -1\frac{1}{10} \quad \left\{-\frac{2}{3}\right\}$$

$$9) -2m - 2\frac{5}{6} = 9\frac{1}{6}$$

$\{-6\}$

$$10) -3\frac{3}{8}p + 4\frac{3}{7} = 11\frac{5}{28}$$

$\{-2\}$

$$11) -2 + 1\frac{1}{2}x = -4\frac{11}{14} \quad \left\{-1\frac{6}{7}\right\}$$

$$12) \frac{2}{5} - \frac{1}{2}n = -\frac{13}{30} \quad \left\{1\frac{2}{3}\right\}$$

$$13) -\frac{3}{5}b + 3\frac{1}{2} = -1\frac{81}{130} \quad \left\{8\frac{7}{13}\right\}$$

$$14) -\frac{4}{3}r - 1\frac{1}{2} = -1\frac{1}{12} \quad \left\{-\frac{5}{16}\right\}$$

$$15) -\frac{9}{5} - 2\frac{1}{2}v = 2\frac{7}{10} \quad \left\{-1\frac{4}{5}\right\}$$

$$16) -2\frac{5}{6}b + \frac{13}{8} = -2\frac{5}{8} \quad \left\{1\frac{1}{2}\right\}$$

$$17) -\frac{4}{3} - \frac{12}{7}n = 2\frac{50}{147} \quad \left\{-2\frac{1}{7}\right\}$$

$$18) 2\frac{1}{2}x - \frac{11}{8} = 12\frac{83}{88} \quad \left\{5\frac{8}{11}\right\}$$

$$19) 2\frac{1}{6}x - 1\frac{5}{6} = -6\frac{1}{6}$$

$\{-2\}$

$$20) \frac{5}{6}x - 1\frac{5}{7} = 4\frac{115}{231} \quad \left\{7\frac{5}{11}\right\}$$

$$21) \frac{1}{2}a - 3\frac{1}{3} = -2\frac{5}{12} \quad \left\{1\frac{5}{6}\right\}$$

$$22) -2\frac{1}{8}k + 4\frac{3}{4} = 8\frac{63}{80} \quad \left\{-1\frac{9}{10}\right\}$$

23) $-\frac{3}{7}p + \frac{1}{2} = 1\frac{61}{70}$ $\left\{-3\frac{1}{5}\right\}$

24) $-\frac{4}{5}x + 1 = -\frac{1}{75}$ $\left\{1\frac{4}{15}\right\}$

25) $-\frac{9}{8} - 2\frac{1}{3}n = -17\frac{65}{264}$ $\left\{6\frac{10}{11}\right\}$

26) $-1\frac{1}{3} + 1\frac{2}{3}m = -\frac{1}{42}$ $\left\{\frac{11}{14}\right\}$

27) $-\frac{10}{7}x - 2\frac{1}{3} = -\frac{13}{21}$ $\left\{-1\frac{1}{5}\right\}$

28) $-\frac{9}{5} + 4\frac{3}{7}r = 14\frac{293}{315}$ $\left\{3\frac{7}{9}\right\}$

29) $-3\frac{7}{8} - \frac{1}{6}n = -3\frac{17}{24}$

$\{-1\}$

30) $-\frac{1}{2} + 2v = \frac{23}{26}$ $\left\{\frac{9}{13}\right\}$

31) $3\frac{2}{5}b - \frac{1}{2} = 30\frac{1}{10}$

$\{9\}$

32) $\frac{9}{5}x + \frac{5}{4} = 11\frac{1}{20}$ $\left\{5\frac{4}{9}\right\}$

33) $-3\frac{1}{4} - 2\frac{1}{2}n = -2\frac{5}{12}$ $\left\{-\frac{1}{3}\right\}$

34) $-3\frac{2}{5} + 2x = -7\frac{1}{40}$ $\left\{-1\frac{13}{16}\right\}$

35) $-3\frac{3}{8} + \frac{6}{7}a = -1\frac{19}{392}$ $\left\{2\frac{5}{7}\right\}$

36) $\frac{6}{5}k + \frac{3}{4} = 8\frac{7}{20}$ $\left\{6\frac{1}{3}\right\}$

37) $3\frac{1}{2} + 2\frac{4}{5}x = \frac{7}{26}$ $\left\{-1\frac{2}{13}\right\}$

38) $-\frac{3}{2}n - \frac{5}{3} = \frac{5}{24}$ $\left\{-1\frac{1}{4}\right\}$

39) $\frac{13}{7}p - \frac{10}{7} = -5\frac{1}{7}$

$\{-2\}$

40) $2 + \frac{2}{5}m = 3\frac{29}{35}$ $\left\{4\frac{4}{7}\right\}$

41) $\frac{4}{3}x + \frac{1}{2} = -\frac{11}{18}$ $\left\{-\frac{5}{6}\right\}$

42) $-\frac{2}{7}n - 1\frac{2}{3} = -3\frac{43}{168}$ $\left\{5\frac{9}{16}\right\}$

43) $1 + 2\frac{1}{4}b = -2\frac{39}{44}$ $\left\{-1\frac{8}{11}\right\}$

44) $-\frac{3}{2}x + \frac{2}{3} = \frac{2}{3}$

$\{0\}$

45) $-\frac{13}{8} - n = \frac{7}{40}$ $\left\{-1\frac{4}{5}\right\}$

46) $2 + \frac{2}{3}r = 3\frac{1}{7}$ $\left\{1\frac{5}{7}\right\}$

47) $-2\frac{1}{2} - \frac{8}{5}v = -1\frac{3}{10}$ $\left\{-\frac{3}{4}\right\}$

48) $-2 - 3\frac{1}{8}x = -17\frac{95}{112}$ $\left\{5\frac{1}{14}\right\}$

$$49) -3\frac{1}{3} - 3\frac{3}{5}b = -18\frac{52}{75} \quad \left\{4\frac{4}{15}\right\}$$

$$50) 1\frac{1}{8} - \frac{5}{8}a = 1\frac{1}{8}$$

$\{0\}$

$$51) -7 + \frac{5}{6}p = -7$$

$\{0\}$

$$52) -\frac{8}{5}x + \frac{10}{7} = 6\frac{184}{315} \quad \left\{-3\frac{2}{9}\right\}$$

$$53) -8\frac{1}{6} - 1\frac{3}{7}k = -6\frac{47}{84} \quad \left\{-1\frac{1}{8}\right\}$$

$$54) -2 + \frac{3}{4}n = -3\frac{1}{2}$$

$\{-2\}$

$$55) 2\frac{4}{7}x + 1\frac{1}{6} = -7\frac{29}{294} \quad \left\{-3\frac{3}{14}\right\}$$

$$56) 2\frac{1}{2} + 1\frac{1}{2}m = 4\frac{1}{2} \quad \left\{1\frac{1}{3}\right\}$$

$$57) \frac{4}{3} - \frac{3}{2}r = 3\frac{19}{48} \quad \left\{-1\frac{3}{8}\right\}$$

$$58) -\frac{10}{7}x - 3\frac{1}{2} = -3\frac{1}{42} \quad \left\{-\frac{1}{3}\right\}$$

$$59) 1\frac{1}{6} + 4\frac{1}{4}b = -7\frac{1}{3}$$

$\{-2\}$

$$60) -\frac{5}{3}n + \frac{11}{7} = -1\frac{68}{273} \quad \left\{1\frac{9}{13}\right\}$$

$$61) 4\frac{7}{8}v + 3\frac{1}{2} = 45\frac{11}{32} \quad \left\{8\frac{7}{12}\right\}$$

$$62) -1 + \frac{1}{2}x = 2\frac{3}{14} \quad \left\{6\frac{3}{7}\right\}$$

$$63) -\frac{11}{7}n + 3\frac{3}{5} = 5\frac{1}{35} \quad \left\{-\frac{10}{11}\right\}$$

$$64) -2\frac{3}{8}a - 1\frac{3}{8} = -12\frac{41}{48} \quad \left\{4\frac{5}{6}\right\}$$

$$65) 1\frac{1}{6}k - 1\frac{5}{8} = -1\frac{11}{12} \quad \left\{-\frac{1}{4}\right\}$$

$$66) -2 - n = -\frac{7}{10} \quad \left\{-1\frac{3}{10}\right\}$$

$$67) -7 + \frac{2}{3}x = -7\frac{4}{15} \quad \left\{-\frac{2}{5}\right\}$$

$$68) 8 + \frac{2}{3}x = 8\frac{2}{11} \quad \left\{\frac{3}{11}\right\}$$

$$69) -3\frac{1}{4}n - 1 = -\frac{15}{28} \quad \left\{-\frac{1}{7}\right\}$$

$$70) -1\frac{1}{5} - 3\frac{2}{7}p = -4\frac{17}{35}$$

$\{1\}$

$$71) -\frac{2}{7} - \frac{4}{5}m = -2\frac{64}{175} \quad \left\{2\frac{3}{5}\right\}$$

$$72) 1\frac{1}{4} - 3\frac{4}{7}x = 11\frac{1}{14} \quad \left\{-2\frac{3}{4}\right\}$$

$$73) -\frac{9}{5} + \frac{7}{4}b = -4\frac{3}{40} \quad \left\{-1\frac{3}{10}\right\}$$

$$74) 2\frac{1}{7} + 3\frac{2}{3}r = 19\frac{26}{35} \quad \left\{4\frac{4}{5}\right\}$$

75) $2\frac{2}{7}x + \frac{13}{8} = 2\frac{27}{56} \quad \left\{ \frac{3}{8} \right\}$

76) $\frac{7}{6}n - 3\frac{1}{6} = -1\frac{1}{8} \quad \left\{ 1\frac{3}{4} \right\}$

77) $2a + 7 = 7\frac{3}{7} \quad \left\{ \frac{3}{14} \right\}$

78) $\frac{1}{3}v - 1\frac{1}{3} = \frac{5}{6} \quad \left\{ 6\frac{1}{2} \right\}$

79) $2\frac{2}{3}x + 1\frac{5}{6} = -1\frac{19}{78} \quad \left\{ -1\frac{2}{13} \right\}$

80) $-\frac{7}{5} + \frac{2}{3}x = -2\frac{1}{15}$
 $\{-1\}$

81) $2p - 2 = -4$
 $\{-1\}$

82) $-\frac{9}{7} - 2\frac{1}{6}k = -4\frac{11}{63} \quad \left\{ 1\frac{1}{3} \right\}$

83) $-1\frac{2}{3}a + \frac{5}{4} = -4\frac{31}{36} \quad \left\{ 3\frac{2}{3} \right\}$

84) $-3\frac{1}{7}x + \frac{1}{3} = -13\frac{23}{42} \quad \left\{ 4\frac{5}{12} \right\}$

85) $1 + 3\frac{1}{2}n = \frac{1}{2} \quad \left\{ -\frac{1}{7} \right\}$

86) $-1\frac{3}{5} + \frac{11}{8}m = \frac{13}{20} \quad \left\{ 1\frac{7}{11} \right\}$

87) $-1\frac{4}{5} + \frac{1}{8}r = -1\frac{217}{240} \quad \left\{ -\frac{5}{6} \right\}$

88) $-\frac{2}{5}n - \frac{3}{2} = -\frac{7}{10}$
 $\{-2\}$

89) $3\frac{1}{5}x - \frac{9}{7} = 11\frac{5}{7} \quad \left\{ 4\frac{1}{16} \right\}$

90) $-\frac{1}{5} - 1\frac{3}{8}b = -4\frac{13}{40}$
 $\{3\}$

91) $-1 + 3\frac{2}{5}v = 33$
 $\{10\}$

92) $-2\frac{1}{2}x + 1\frac{4}{7} = 1\frac{4}{7}$
 $\{0\}$

93) $\frac{5}{4} - \frac{1}{4}n = 1\frac{2}{9} \quad \left\{ \frac{1}{9} \right\}$

94) $-\frac{4}{5} + \frac{3}{2}a = -1\frac{11}{20} \quad \left\{ -\frac{1}{2} \right\}$

95) $-1\frac{1}{6} + 1\frac{1}{2}x = 7\frac{59}{60} \quad \left\{ 6\frac{1}{10} \right\}$

96) $-1\frac{1}{5} - 1\frac{4}{5}k = 5\frac{22}{25} \quad \left\{ -3\frac{14}{15} \right\}$

97) $\frac{12}{7} + \frac{1}{2}n = 1\frac{3}{112} \quad \left\{ -1\frac{3}{8} \right\}$

98) $-2\frac{3}{4} - \frac{3}{2}x = -3\frac{47}{52} \quad \left\{ \frac{10}{13} \right\}$

99) $\frac{1}{2} + 1\frac{2}{3}p = -2\frac{20}{21} \quad \left\{ -2\frac{1}{14} \right\}$

100) $\frac{15}{8}m + 1\frac{7}{8} = -1\frac{7}{8}$
 $\{-2\}$

$$101) 8 = 2n - 2$$
$$\{5\}$$

$$102) 36\frac{5}{8} = 2x + 2\frac{5}{8}$$
$$\{17\}$$

$$103) -8\frac{1}{2} = -2b - \frac{5}{4} \left\{3\frac{5}{8}\right\}$$

$$104) -1\frac{43}{45} = -2\frac{5}{9} - \frac{3}{10}r$$
$$\{-2\}$$

$$105) 7\frac{9}{14} = 5\frac{1}{7} - \frac{5}{3}n \left\{-1\frac{1}{2}\right\}$$

$$106) 20\frac{59}{81} = 2\frac{1}{9}a + \frac{5}{9} \left\{9\frac{5}{9}\right\}$$

$$107) -15\frac{34}{45} = \frac{1}{9} - \frac{7}{8}x \left\{18\frac{2}{15}\right\}$$

$$108) 2\frac{25}{56} = \frac{2}{7}x + 2 \left\{1\frac{9}{16}\right\}$$

$$109) -7\frac{2}{7} = \frac{7}{4} + 2\frac{7}{8}v \left\{-3\frac{1}{7}\right\}$$

$$110) 6\frac{131}{156} = -\frac{1}{4} + 1\frac{1}{6}x \left\{6\frac{1}{13}\right\}$$

$$111) 35 = -1 - 4a$$
$$\{-9\}$$

$$112) -5\frac{5}{8} = \frac{1}{2}k + \frac{7}{8}$$
$$\{-13\}$$

$$113) 10\frac{1}{14} = 4\frac{3}{4}x + \frac{4}{7}$$
$$\{2\}$$

$$114) -5\frac{401}{1071} = -3\frac{7}{9} - \frac{10}{7}p \left\{1\frac{2}{17}\right\}$$

$$115) 28\frac{41}{60} = \frac{1}{10} + 7n \left\{4\frac{1}{12}\right\}$$

$$116) -2 = -\frac{2}{3}m - \frac{5}{3} \left\{\frac{1}{2}\right\}$$

$$117) -13\frac{3}{4} = -2\frac{2}{5}x + \frac{7}{5} \left\{6\frac{5}{16}\right\}$$

$$118) 5\frac{23}{52} = -2\frac{3}{4} + \frac{3}{4}n \left\{10\frac{12}{13}\right\}$$

$$119) 1\frac{254}{315} = \frac{8}{7}r + \frac{3}{5} \left\{1\frac{1}{18}\right\}$$

$$120) 13\frac{5}{18} = 3\frac{5}{6} + 5\frac{2}{3}b \left\{1\frac{2}{3}\right\}$$

$$121) 7\frac{53}{120} = 5\frac{1}{6}v + 1\frac{1}{2} \left\{1\frac{3}{20}\right\}$$

$$122) 5\frac{13}{20} = 5\frac{2}{5} + \frac{1}{4}x$$
$$\{1\}$$

$$123) -27\frac{1}{9} = 5\frac{8}{9} + 2\frac{3}{4}n$$
$$\{-12\}$$

$$124) -\frac{31}{40} = 1\frac{5}{8}a + 1\frac{1}{2} \left\{-1\frac{2}{5}\right\}$$

$$125) -8\frac{11}{36} = -3\frac{5}{9} - \frac{1}{2}k \left\{9\frac{1}{2}\right\}$$

$$126) 3\frac{7}{36} = \frac{7}{4} + \frac{1}{2}x \left\{2\frac{8}{9}\right\}$$

$$127) -10\frac{7}{8} = -\frac{3}{8} - 9x \quad \left\{1\frac{1}{6}\right\}$$

$$128) 3\frac{11}{48} = -1\frac{5}{8}n + 5\frac{2}{3} \quad \left\{1\frac{1}{2}\right\}$$

$$129) 1\frac{16}{35} = \frac{2}{5}m + 1\frac{6}{7}$$

$$\{-1\}$$

$$130) -3\frac{19}{40} = -1\frac{1}{2}p + 2 \quad \left\{3\frac{13}{20}\right\}$$

$$131) 2\frac{31}{35} = 1 + \frac{2}{5}n \quad \left\{4\frac{5}{7}\right\}$$

$$132) -5\frac{8}{21} = -\frac{12}{7} - \frac{1}{3}b$$

$$\{11\}$$

$$133) -8\frac{41}{100} = -1 + 3\frac{9}{10}x \quad \left\{-1\frac{9}{10}\right\}$$

$$134) 55\frac{2}{15} = 5\frac{4}{5} + 2\frac{2}{3}r \quad \left\{18\frac{1}{2}\right\}$$

$$135) -7\frac{1}{5} = -7\frac{1}{5} - \frac{7}{6}n$$

$$\{0\}$$

$$136) -11\frac{17}{22} = -2\frac{1}{2} - x \quad \left\{9\frac{3}{11}\right\}$$

$$137) 1\frac{1}{6} = -\frac{3}{10} - \frac{4}{5}a \quad \left\{-1\frac{5}{6}\right\}$$

$$138) \frac{2}{3} = \frac{5}{3} + \frac{3}{2}v \quad \left\{-\frac{2}{3}\right\}$$

$$139) -1\frac{199}{420} = -3\frac{6}{7} + 2\frac{1}{6}x \quad \left\{1\frac{1}{10}\right\}$$

$$140) -\frac{1}{2} = -2\frac{3}{4}n - \frac{1}{2}$$

$$\{0\}$$

$$141) 10\frac{19}{24} = -3\frac{1}{2}x - \frac{7}{4} \quad \left\{-3\frac{7}{12}\right\}$$

$$142) -3\frac{25}{64} = -\frac{13}{8} - \frac{1}{4}k \quad \left\{7\frac{1}{16}\right\}$$

$$143) 7\frac{123}{440} = 3\frac{7}{10} - 1\frac{7}{8}x \quad \left\{-1\frac{10}{11}\right\}$$

$$144) -\frac{13}{56} = -\frac{7}{4}p - 2\frac{6}{7} \quad \left\{-1\frac{1}{2}\right\}$$

$$145) 1 = \frac{3}{4} + \frac{1}{3}n \quad \left\{\frac{3}{4}\right\}$$

$$146) 31\frac{203}{216} = 3\frac{1}{6}m + 5\frac{3}{8} \quad \left\{8\frac{7}{18}\right\}$$

$$147) 2\frac{2}{15} = 1\frac{2}{3} + \frac{4}{5}x \quad \left\{\frac{7}{12}\right\}$$

$$148) -6\frac{7}{75} = -\frac{9}{5} + 2\frac{4}{5}r \quad \left\{-1\frac{8}{15}\right\}$$

$$149) -5\frac{3}{10} = -1\frac{9}{10}b - \frac{9}{5} \quad \left\{1\frac{16}{19}\right\}$$

$$150) -80\frac{52}{63} = \frac{2}{7} - 10n \quad \left\{8\frac{1}{9}\right\}$$

$$151) -8\frac{5}{8} = 2x - 4\frac{5}{8}$$

$$\{-2\}$$

$$152) -4\frac{331}{560} = 4\frac{1}{7}v + 2\frac{2}{5} \quad \left\{-1\frac{11}{16}\right\}$$

$$153) 17\frac{1}{40} = 3\frac{5}{6}a - 10 \left\{ 7\frac{1}{20} \right\}$$

$$154) 1\frac{142}{255} = \frac{4}{3}k + \frac{7}{5} \left\{ \frac{2}{17} \right\}$$

$$155) -7\frac{8}{15} = 3\frac{2}{5} - 2p \left\{ 5\frac{7}{15} \right\}$$

$$156) 5\frac{9}{22} = \frac{7}{6} - \frac{7}{6}n \left\{ -3\frac{7}{11} \right\}$$

$$157) \frac{1}{9} = 2n - 1\frac{8}{9}$$

$\{1\}$

$$158) -12\frac{23}{50} = 9 - 2\frac{9}{10}x \left\{ 7\frac{2}{5} \right\}$$

$$159) 6\frac{29}{64} = 5\frac{1}{4}p - 1\frac{3}{4} \left\{ 1\frac{9}{16} \right\}$$

$$160) 3\frac{645}{1064} = \frac{6}{7}m + \frac{9}{8} \left\{ 2\frac{17}{19} \right\}$$

$$161) 13\frac{13}{40} = \frac{9}{10}x - 2\frac{1}{8} \left\{ 17\frac{1}{6} \right\}$$

$$162) \frac{13}{14} = \frac{10}{7} - 2n \left\{ \frac{1}{4} \right\}$$

$$163) 43\frac{118}{153} = \frac{17}{9} + 4r \left\{ 10\frac{8}{17} \right\}$$

$$164) 4\frac{251}{420} = 4\frac{5}{7} + 1\frac{1}{6}b \left\{ -\frac{1}{10} \right\}$$

$$165) 3\frac{7}{18} = -\frac{4}{3}x + 1\frac{2}{9} \left\{ -1\frac{5}{8} \right\}$$

$$166) 3\frac{7}{10} = 4\frac{2}{5}a + 1\frac{1}{2} \left\{ \frac{1}{2} \right\}$$

$$167) -33\frac{69}{70} = 3\frac{6}{7}n + \frac{3}{2} \left\{ -9\frac{1}{5} \right\}$$

$$168) -11\frac{1}{12} = \frac{3}{4}x - 8\frac{1}{2} \left\{ -3\frac{4}{9} \right\}$$

$$169) -15\frac{20}{63} = -\frac{10}{7} - 2v \left\{ 6\frac{17}{18} \right\}$$

$$170) 2\frac{17}{56} = 2\frac{5}{7}x - 3\frac{1}{8}$$

$\{2\}$

$$171) -20\frac{5}{9} = -2\frac{5}{9} - 2\frac{7}{10}n \left\{ 6\frac{2}{3} \right\}$$

$$172) 2\frac{25}{28} = \frac{5}{3}k + \frac{1}{7} \left\{ 1\frac{13}{20} \right\}$$

$$173) -\frac{513}{560} = -1\frac{5}{8}p - \frac{3}{7} \left\{ \frac{3}{10} \right\}$$

$$174) \frac{193}{441} = 4\frac{5}{7}x + 1\frac{1}{9} \left\{ -\frac{1}{7} \right\}$$

$$175) 42\frac{33}{56} = -2\frac{3}{4}m + 9 \left\{ -12\frac{3}{14} \right\}$$

$$176) \frac{7}{10} = \frac{1}{2} + \frac{1}{5}n$$

$\{1\}$

$$177) -13\frac{4}{11} = -1 + 8r \left\{ -1\frac{6}{11} \right\}$$

$$178) -6\frac{71}{90} = -2x - 3\frac{9}{10} \left\{ 1\frac{4}{9} \right\}$$

$$179) 1\frac{29}{72} = -\frac{5}{4}n - \frac{8}{9} \left\{ -1\frac{5}{6} \right\}$$

$$180) \frac{71}{78} = \frac{1}{3}v + \frac{5}{6} \left\{ \frac{3}{13} \right\}$$

$$181) -34\frac{79}{120} = -3\frac{5}{8}b + 4\frac{1}{4} \left\{ 10\frac{11}{15} \right\}$$

$$182) 1\frac{19}{30} = -1\frac{1}{6} + 2x \left\{ 1\frac{2}{5} \right\}$$

$$183) 50\frac{239}{252} = -2\frac{4}{9} + 5\frac{3}{4}n \left\{ 9\frac{2}{7} \right\}$$

$$184) 27\frac{269}{320} = 4\frac{1}{4}a + 4\frac{1}{5} \left\{ 5\frac{9}{16} \right\}$$

$$185) 1 = 1 - \frac{1}{2}p$$

$$186) 2\frac{4}{7} = -\frac{3}{2}k - \frac{3}{4} \left\{ -2\frac{3}{14} \right\}$$

{0}

$$187) -4\frac{5}{24} = -\frac{15}{8} - 2\frac{2}{3}x \left\{ \frac{7}{8} \right\}$$

$$188) 13\frac{47}{315} = 2\frac{4}{5} + \frac{8}{7}n \left\{ 9\frac{1}{18} \right\}$$

$$189) -17\frac{11}{30} = -10 + 5\frac{1}{5}p \left\{ -1\frac{5}{12} \right\}$$

$$190) 1\frac{11}{315} = \frac{10}{9} - 1\frac{1}{7}m \left\{ \frac{1}{15} \right\}$$

$$191) -8\frac{1}{45} = -\frac{9}{5} - \frac{2}{3}x \left\{ 9\frac{1}{3} \right\}$$

$$192) -\frac{31}{114} = -\frac{1}{3}n + \frac{1}{6} \left\{ 1\frac{6}{19} \right\}$$

$$193) 7\frac{15}{32} = 5\frac{1}{2} - \frac{7}{8}x \left\{ -2\frac{1}{4} \right\}$$

$$194) -9\frac{1}{8} = 4\frac{3}{4} + 4\frac{5}{8}r$$

{-3}

$$195) 59\frac{137}{560} = -\frac{3}{10} + 5\frac{4}{7}b \left\{ 10\frac{11}{16} \right\}$$

$$196) -10\frac{1}{45} = \frac{4}{3} - 2\frac{1}{3}v \left\{ 4\frac{13}{15} \right\}$$

$$197) -5\frac{59}{80} = -\frac{3}{4}n - \frac{6}{5} \left\{ 6\frac{1}{20} \right\}$$

$$198) -\frac{44}{63} = \frac{4}{7}a - \frac{2}{3} \left\{ -\frac{1}{18} \right\}$$

$$199) -5\frac{9}{50} = -8\frac{9}{10} + 3\frac{1}{10}x \left\{ 1\frac{1}{5} \right\}$$

$$200) 16\frac{13}{15} = 1\frac{7}{10} - \frac{13}{9}x \left\{ -10\frac{1}{2} \right\}$$

$$201) \frac{5}{9}n + \frac{3}{7} = 1\frac{67}{189} \left\{ 1\frac{2}{3} \right\}$$

$$202) \frac{3}{7} + \frac{6}{7}k = 2\frac{1}{7}$$

{2}

$$203) 23\frac{101}{120} = -\frac{1}{2} + 2\frac{3}{10}p \left\{ 10\frac{7}{12} \right\}$$

$$204) 2n - \frac{5}{4} = -47\frac{1}{4}$$

{-23}

$$205) 50\frac{31}{55} = -1\frac{7}{11} + 5\frac{4}{5}x$$

{9}

$$207) -6\frac{45}{76} = -3\frac{3}{4} - 1\frac{1}{2}m \quad \left\{1\frac{17}{19}\right\}$$

$$209) \frac{1}{3}b - 1 = 3\frac{5}{16} \quad \left\{12\frac{15}{16}\right\}$$

$$211) -8\frac{2}{5} = \frac{1}{2}v - 8 \quad \left\{-\frac{4}{5}\right\}$$

$$213) 4\frac{421}{504} = -\frac{1}{6}a + 4\frac{4}{7} \quad \left\{-1\frac{7}{12}\right\}$$

$$215) 8\frac{17}{132} = 4\frac{7}{12} + \frac{3}{11}k$$

{13}

$$217) -15\frac{27}{44} = \frac{10}{11}p + \frac{3}{4}$$

{-18}

$$219) 4\frac{1}{9} + \frac{16}{11}m = 6\frac{181}{495} \quad \left\{1\frac{11}{20}\right\}$$

$$221) -1 - 3\frac{1}{5}r = 4\frac{19}{25} \quad \left\{-1\frac{4}{5}\right\}$$

$$223) 1\frac{1}{6} - 12b = -15\frac{79}{102} \quad \left\{1\frac{7}{17}\right\}$$

$$225) 6\frac{7}{40} = 6\frac{7}{8} + \frac{3}{5}r \quad \left\{-1\frac{1}{6}\right\}$$

$$227) -1\frac{1}{6}a - \frac{4}{3} = -7\frac{55}{78} \quad \left\{5\frac{6}{13}\right\}$$

$$229) \frac{3}{40} = -\frac{3}{5}v + \frac{3}{8} \quad \left\{\frac{1}{2}\right\}$$

$$206) 70\frac{5}{63} = 6\frac{2}{7}r + 2\frac{1}{3} \quad \left\{10\frac{7}{9}\right\}$$

$$208) 14\frac{377}{630} = 6\frac{9}{10} + \frac{5}{3}x \quad \left\{4\frac{13}{21}\right\}$$

$$210) \frac{1}{2} + 4\frac{5}{9}n = 2\frac{29}{90} \quad \left\{\frac{2}{5}\right\}$$

$$212) -7\frac{127}{170} = -\frac{7}{5}x + \frac{9}{10} \quad \left\{6\frac{3}{17}\right\}$$

$$214) -\frac{16}{21} = 3\frac{1}{3}n - 2\frac{2}{3} \quad \left\{\frac{4}{7}\right\}$$

$$216) -3\frac{14}{15} = -2 - 2\frac{9}{10}x \quad \left\{\frac{2}{3}\right\}$$

$$218) \frac{1}{8}n + 5\frac{3}{8} = 5\frac{23}{64} \quad \left\{-\frac{1}{8}\right\}$$

$$220) \frac{1}{15} = 2x - 1 \quad \left\{\frac{8}{15}\right\}$$

$$222) -2 - 5n = -58\frac{1}{4} \quad \left\{11\frac{1}{4}\right\}$$

$$224) 1\frac{3}{4} - 7x = -166\frac{39}{44} \quad \left\{24\frac{1}{11}\right\}$$

$$226) 28\frac{1}{8} = \frac{4}{3}n + 4\frac{1}{8}$$

{18}

$$228) 6\frac{45}{56} = \frac{5}{7}x + 2\frac{1}{4} \quad \left\{6\frac{3}{8}\right\}$$

$$230) \frac{17}{36} = \frac{5}{9} - \frac{1}{12}n$$

{1}

$$231) -16\frac{34}{45} = -1\frac{8}{9}x - \frac{5}{12} \left\{ 8\frac{13}{20} \right\}$$

$$232) -2\frac{3}{10}k - \frac{7}{4} = 1\frac{10}{11} \left\{ -1\frac{13}{22} \right\}$$

$$233) 2\frac{5}{9} - \frac{5}{3}n = 1\frac{2}{9} \left\{ \frac{4}{5} \right\}$$

$$234) 1\frac{591}{1232} = \frac{3}{11}x + \frac{10}{7} \left\{ \frac{3}{16} \right\}$$

$$235) 3\frac{1}{8} + \frac{5}{9}p = 4\frac{7}{72} \left\{ 1\frac{3}{4} \right\}$$

$$236) -\frac{13}{12} + 1\frac{2}{5}m = -2\frac{151}{660} \left\{ -\frac{9}{11} \right\}$$

$$237) 105\frac{214}{345} = 11\frac{1}{3}r - 1\frac{4}{5} \left\{ 9\frac{11}{23} \right\}$$

$$238) -1 = -1\frac{1}{2}x - 2\frac{3}{4} \left\{ -1\frac{1}{6} \right\}$$

$$239) -16\frac{3}{4} = -\frac{3}{2}n - 1 \left\{ 10\frac{1}{2} \right\}$$

$$240) -2\frac{4}{77} = \frac{4}{11}b - 2 \left\{ -\frac{1}{7} \right\}$$

$$241) 14\frac{51}{95} = 1\frac{1}{5}v + \frac{1}{5} \left\{ 11\frac{18}{19} \right\}$$

$$242) 5\frac{3}{7}n + \frac{1}{5} = -3\frac{118}{735} \left\{ -\frac{13}{21} \right\}$$

$$243) 6\frac{4}{7} + \frac{2}{3}x = 9\frac{157}{189} \left\{ 4\frac{8}{9} \right\}$$

$$244) \frac{2}{7} + 3\frac{2}{9}p = 18\frac{104}{315} \left\{ 5\frac{3}{5} \right\}$$

$$245) -\frac{9}{7}a + 4\frac{1}{2} = -1\frac{1}{2} \left\{ 4\frac{2}{3} \right\}$$

$$246) -4\frac{55}{72} = -\frac{8}{9} - 2k \left\{ 1\frac{15}{16} \right\}$$

$$247) \frac{17}{18} = -\frac{5}{9} - \frac{17}{12}x \left\{ -1\frac{1}{17} \right\}$$

$$248) -4\frac{21}{23} = -9 + 4\frac{3}{11}n \left\{ \frac{22}{23} \right\}$$

$$249) 4\frac{2}{5} - \frac{19}{12}m = 6\frac{653}{720} \left\{ -1\frac{7}{12} \right\}$$

$$250) 9 - \frac{7}{8}r = 10\frac{95}{192} \left\{ -1\frac{17}{24} \right\}$$

$$251) 3\frac{89}{143} = 4\frac{6}{11} - x \left\{ \frac{12}{13} \right\}$$

$$252) 3\frac{1}{22} = 3\frac{1}{6}n + 2\frac{6}{11} \left\{ \frac{3}{19} \right\}$$

$$253) -14\frac{65}{88} = -1 - \frac{13}{11}b \left\{ 11\frac{5}{8} \right\}$$

$$254) 8\frac{23}{24} = 4\frac{1}{12}x + 4\frac{7}{8}$$

$$\left\{ 1 \right\}$$

$$255) 53\frac{6}{25} = 5\frac{3}{5}r + 2 \left\{ 9\frac{3}{20} \right\}$$

$$256) 6 - 2n = 10\frac{4}{15} \left\{ -2\frac{2}{15} \right\}$$

$$257) -\frac{1}{4}a - 3\frac{10}{11} = -5\frac{127}{176} \left\{ 7\frac{1}{4} \right\}$$

$$258) \frac{3}{8} + 5\frac{7}{8}v = -11\frac{3}{8}$$

$$\{-2\}$$

$$259) -3\frac{5}{7}x + \frac{11}{6} = \frac{43}{66} \left\{ \frac{7}{22} \right\}$$

$$260) -\frac{5}{3} + 4n = 19\frac{1}{6} \left\{ 5\frac{5}{24} \right\}$$

$$261) -2\frac{7}{11} = -1 + \frac{6}{5}x \left\{ -1\frac{4}{11} \right\}$$

$$262) -3\frac{11}{12}x - 1 = 13\frac{19}{96} \left\{ -3\frac{5}{8} \right\}$$

$$263) -1\frac{3}{4} = -\frac{4}{3} - \frac{3}{2}p \left\{ \frac{5}{18} \right\}$$

$$264) -1\frac{9}{10}n + 6\frac{2}{7} = 3\frac{571}{700} \left\{ 1\frac{3}{10} \right\}$$

$$265) -\frac{106}{117} = \frac{8}{9} + 3\frac{1}{3}k \left\{ -\frac{7}{13} \right\}$$

$$266) -\frac{1}{3}r - 1\frac{7}{10} = -1\frac{41}{90} \left\{ -\frac{11}{15} \right\}$$

$$267) 12\frac{3}{10} = -4x + 5\frac{3}{10} \left\{ -1\frac{3}{4} \right\}$$

$$268) 59\frac{1263}{1760} = 6\frac{9}{10}n + \frac{7}{11} \left\{ 8\frac{9}{16} \right\}$$

$$269) -15\frac{1}{189} = -3\frac{1}{3}m + 3\frac{1}{7} \left\{ 5\frac{4}{9} \right\}$$

$$270) -\frac{1}{5} - \frac{5}{3}b = -1\frac{148}{315} \left\{ \frac{16}{21} \right\}$$

$$271) 18\frac{15}{22} = \frac{1}{2} + 2v \left\{ 9\frac{1}{11} \right\}$$

$$272) 4\frac{5}{11}x - 1\frac{3}{4} = 3\frac{877}{1012} \left\{ 1\frac{6}{23} \right\}$$

$$273) -\frac{10}{11}n - \frac{2}{3} = -7\frac{37}{66} \left\{ 7\frac{7}{12} \right\}$$

$$274) 6\frac{3}{8}a - \frac{6}{5} = -5\frac{193}{240} \left\{ -\frac{13}{18} \right\}$$

$$275) \frac{17}{9}k - \frac{3}{2} = 18\frac{25}{126} \left\{ 10\frac{3}{7} \right\}$$

$$276) 2p + 11 = 17\frac{8}{19} \left\{ 3\frac{4}{19} \right\}$$

$$277) -3\frac{7}{12} + \frac{1}{2}x = -2\frac{25}{36} \left\{ 1\frac{7}{9} \right\}$$

$$278) -1\frac{1}{6} + \frac{6}{5}n = -5\frac{113}{210} \left\{ -3\frac{9}{14} \right\}$$

$$279) \frac{11}{6} + 6\frac{11}{12}m = 8\frac{3}{4}$$

$$280) -1\frac{4}{7} - \frac{1}{6}r = -3\frac{167}{672} \left\{ 10\frac{1}{16} \right\}$$

$$\{1\}$$

$$281) 4b + 5\frac{1}{2} = -6\frac{15}{46} \left\{ -2\frac{22}{23} \right\}$$

$$282) 7\frac{111}{200} = 2\frac{3}{8} + 3\frac{7}{10}x \left\{ 1\frac{2}{5} \right\}$$

$$283) -\frac{9}{16} = -\frac{11}{10} + 5\frac{3}{8}n \quad \left\{ \frac{1}{10} \right\}$$

$$284) 3\frac{1}{6} = 2 - 1\frac{1}{6}v$$

$\{-1\}$

$$285) -\frac{3}{5}x + \frac{1}{8} = \frac{661}{680} \quad \left\{ -1\frac{7}{17} \right\}$$

$$286) 2\frac{5}{6}a + 1\frac{3}{4} = 3\frac{191}{228} \quad \left\{ \frac{14}{19} \right\}$$

$$287) 6\frac{3}{10} - \frac{2}{5}v = 4\frac{1}{20} \quad \left\{ 5\frac{5}{8} \right\}$$

$$288) \frac{2}{11} - \frac{4}{3}n = -\frac{92}{99} \quad \left\{ \frac{5}{6} \right\}$$

$$289) 4\frac{1}{7}n + 12 = 4\frac{86}{105} \quad \left\{ -1\frac{11}{15} \right\}$$

$$290) 4\frac{21}{143} = 6\frac{5}{11} - \frac{5}{3}x \quad \left\{ 1\frac{5}{13} \right\}$$

$$291) 91\frac{43}{54} = \frac{1}{2} + 9\frac{4}{9}x \quad \left\{ 9\frac{2}{3} \right\}$$

$$292) -32\frac{7}{10} = -2k - 11\frac{1}{5} \quad \left\{ 10\frac{3}{4} \right\}$$

$$293) \frac{3}{2}p - \frac{1}{11} = 2\frac{10}{11}$$

$\{2\}$

$$294) \frac{2}{3}x - 2\frac{11}{12} = -1\frac{113}{132} \quad \left\{ 1\frac{13}{22} \right\}$$

$$295) -6\frac{28}{33} = -\frac{5}{3} - \frac{3}{2}n \quad \left\{ 3\frac{5}{11} \right\}$$

$$296) \frac{28}{33} = -\frac{6}{11}m + \frac{5}{12} \quad \left\{ -\frac{19}{24} \right\}$$

$$297) -1\frac{10}{11} + 1\frac{7}{11}x = 18\frac{8}{11} \quad \left\{ 12\frac{11}{18} \right\}$$

$$298) 29\frac{8}{63} = 1\frac{3}{7}r + \frac{5}{9}$$

$\{20\}$

$$299) -1\frac{5}{32} = -\frac{9}{8}n + \frac{1}{4} \quad \left\{ 1\frac{1}{4} \right\}$$

$$300) 5\frac{3}{5}b + 3\frac{2}{5} = -8\frac{43}{65} \quad \left\{ -2\frac{2}{13} \right\}$$

$$301) 151\frac{1418}{2499} = \frac{13}{17} + 9\frac{5}{7}x \quad \left\{ 15\frac{11}{21} \right\}$$

$$302) -6\frac{223}{1102} = -2\frac{1}{2} - 3\frac{11}{19}v \quad \left\{ 1\frac{1}{29} \right\}$$

$$303) 3\frac{5}{8}n - \frac{5}{7} = 24\frac{103}{112} \quad \left\{ 7\frac{1}{14} \right\}$$

$$304) 5\frac{1}{3} - \frac{1}{5}a = 5\frac{61}{210} \quad \left\{ \frac{3}{14} \right\}$$

$$305) -\frac{8}{9}k + 7\frac{5}{16} = 4\frac{343}{432} \quad \left\{ 2\frac{5}{6} \right\}$$

$$306) 2p + 1\frac{8}{15} = -1\frac{238}{285} \quad \left\{ -1\frac{13}{19} \right\}$$

$$307) -1\frac{5}{6} - \frac{3}{2}x = -28\frac{29}{60} \quad \left\{ 17\frac{23}{30} \right\}$$

$$308) -\frac{71}{119} = -1\frac{15}{17} - \frac{1}{14}n$$

$\{-18\}$

$$309) 5\frac{11}{14} - \frac{16}{9}m = 7\frac{65}{2898} \left\{ -\frac{16}{23} \right\}$$

$$310) \frac{16}{19}r - \frac{18}{11} = \frac{1382}{3135} \left\{ 2\frac{7}{15} \right\}$$

$$311) 13\frac{44}{63} = 3\frac{8}{9} + 5\frac{13}{18}x \left\{ 1\frac{5}{7} \right\}$$

$$312) 58\frac{287}{640} = 4\frac{13}{16}n + \frac{13}{10} \left\{ 11\frac{7}{8} \right\}$$

$$313) \frac{3}{4}b + 4\frac{4}{19} = 4\frac{265}{988} \left\{ \frac{1}{13} \right\}$$

$$314) 23\frac{201}{728} = \frac{9}{7}x - 2\frac{5}{13} \left\{ 19\frac{23}{24} \right\}$$

$$315) -18\frac{1346}{2635} = -\frac{8}{5}v + \frac{24}{17} \left\{ 12\frac{14}{31} \right\}$$

$$316) \frac{25}{19} - \frac{1}{4}n = 1\frac{1241}{1824} \left\{ -1\frac{11}{24} \right\}$$

$$317) 1\frac{5}{14} + 7\frac{2}{5}k = 134\frac{39}{70}$$

{18}

$$318) -\frac{1}{5} - \frac{9}{10}x = -21\frac{4}{5}$$

{24}

$$319) -27\frac{247}{360} = -1\frac{7}{15}a - \frac{5}{18} \left\{ 18\frac{11}{16} \right\}$$

$$320) 10\frac{1}{3} + 8\frac{1}{5}k = 12\frac{113}{375} \left\{ \frac{6}{25} \right\}$$

$$321) 15\frac{3}{5} + \frac{13}{7}x = 18\frac{4}{7} \left\{ 1\frac{3}{5} \right\}$$

$$322) 1\frac{107}{375} = 5\frac{2}{15}p - 2 \left\{ \frac{16}{25} \right\}$$

$$323) 11\frac{799}{1216} = 7\frac{1}{6}n + \frac{30}{19} \left\{ 1\frac{13}{32} \right\}$$

$$324) 3\frac{3}{10} = -n + 2 \left\{ -1\frac{3}{10} \right\}$$

$$325) -\frac{5}{14}x - 2\frac{5}{6} = -3\frac{181}{714} \left\{ 1\frac{3}{17} \right\}$$

$$326) -\frac{7}{8} - 2\frac{13}{20}m = -31\frac{7}{20} \left\{ 11\frac{1}{2} \right\}$$

$$327) 30\frac{5}{9} = \frac{5}{9} + 12r \left\{ 2\frac{1}{2} \right\}$$

$$328) \frac{3}{11}n - \frac{5}{8} = -6\frac{5}{8}$$

{-22}

$$329) 7\frac{4}{9}x + 1\frac{2}{9} = 11\frac{157}{306} \left\{ 1\frac{13}{34} \right\}$$

$$330) -2\frac{3}{5}v + 9\frac{7}{8} = 14\frac{401}{760} \left\{ -1\frac{15}{19} \right\}$$

$$331) 3\frac{161}{216} = \frac{1}{12}b + 2\frac{3}{4} \left\{ 11\frac{17}{18} \right\}$$

$$332) 22\frac{68}{143} = \frac{25}{13}x - 2 \left\{ 12\frac{8}{11} \right\}$$

$$333) -7 + 20a = 288 \left\{ 14\frac{3}{4} \right\}$$

$$334) -3\frac{31}{84} = 6\frac{5}{14}x - \frac{5}{4} \left\{ -\frac{1}{3} \right\}$$

$$335) 3\frac{62}{399} = 2\frac{12}{19} - \frac{11}{12}k \quad \left\{ \begin{matrix} -4 \\ 7 \end{matrix} \right\}$$

$$336) -\frac{13}{10}p + \frac{2}{3} = \frac{77}{135} \quad \left\{ \begin{matrix} 2 \\ 27 \end{matrix} \right\}$$

$$337) 21\frac{959}{988} = 3\frac{8}{13} + \frac{5}{4}x \quad \left\{ \begin{matrix} 14 \\ 13 \\ 19 \end{matrix} \right\}$$

$$338) -2\frac{1}{8}n + 3\frac{4}{17} = 5\frac{1357}{1360} \quad \left\{ \begin{matrix} -1 \\ 3 \\ 10 \end{matrix} \right\}$$

$$339) 2\frac{14}{17}r - \frac{11}{14} = 52\frac{205}{238}$$

{19}

$$340) -1\frac{19}{36} = -1\frac{1}{3}m + \frac{23}{12} \quad \left\{ \begin{matrix} 2 \\ 7 \\ 12 \end{matrix} \right\}$$

$$341) \frac{24}{13} - 11v = -25\frac{250}{273} \quad \left\{ \begin{matrix} 2 \\ 11 \\ 21 \end{matrix} \right\}$$

$$342) -38\frac{3295}{7128} = \frac{17}{11} - 3\frac{7}{18}x \quad \left\{ \begin{matrix} 11 \\ 29 \\ 36 \end{matrix} \right\}$$

$$343) -2\frac{1}{27} = \frac{4}{3}n - 1 \quad \left\{ \begin{matrix} -7 \\ 9 \end{matrix} \right\}$$

$$344) 19\frac{1}{28} = 7\frac{1}{2} + 9\frac{1}{2}b \quad \left\{ \begin{matrix} 1 \\ 3 \\ 14 \end{matrix} \right\}$$

$$345) -32\frac{7}{52} = -3\frac{1}{8}n + 2 \quad \left\{ \begin{matrix} 10 \\ 12 \\ 13 \end{matrix} \right\}$$

$$346) 8\frac{1}{8}a + \frac{19}{12} = 13\frac{37}{48} \quad \left\{ \begin{matrix} 1 \\ 1 \\ 2 \end{matrix} \right\}$$

$$347) 4\frac{121}{208} = 3\frac{13}{16} + 10x \quad \left\{ \begin{matrix} 1 \\ 13 \end{matrix} \right\}$$

$$348) 11\frac{68}{1295} = \frac{3}{5}k - \frac{3}{7} \quad \left\{ \begin{matrix} 19 \\ 5 \\ 37 \end{matrix} \right\}$$

$$349) 134\frac{109}{740} = \frac{17}{20} + 10\frac{7}{13}x \quad \left\{ \begin{matrix} 12 \\ 24 \\ 37 \end{matrix} \right\}$$

$$350) 5\frac{2}{5} - \frac{1}{2}k = 5\frac{24}{35} \quad \left\{ \begin{matrix} -4 \\ 7 \end{matrix} \right\}$$

$$351) -5\frac{223}{600} = 2\frac{3}{5}x - \frac{9}{8} \quad \left\{ \begin{matrix} -1 \\ 19 \\ 30 \end{matrix} \right\}$$

$$352) \frac{5}{8} - 3\frac{1}{3}n = -60\frac{65}{88} \quad \left\{ \begin{matrix} 18 \\ 9 \\ 22 \end{matrix} \right\}$$

$$353) -\frac{19}{11}p + \frac{7}{13} = -34\frac{1249}{2002} \quad \left\{ \begin{matrix} 20 \\ 5 \\ 14 \end{matrix} \right\}$$

$$354) 1\frac{1599}{2261} = \frac{3}{17}n + \frac{10}{7} \quad \left\{ \begin{matrix} 1 \\ 11 \\ 19 \end{matrix} \right\}$$

$$355) -2\frac{2}{19}x + \frac{4}{3} = -2\frac{110}{399} \quad \left\{ \begin{matrix} 1 \\ 5 \\ 7 \end{matrix} \right\}$$

$$356) -2\frac{21}{124} = 6\frac{1}{2} + 5\frac{3}{8}r \quad \left\{ \begin{matrix} -1 \\ 19 \\ 31 \end{matrix} \right\}$$

$$357) -12\frac{224}{513} = 5\frac{5}{9}m + 5\frac{10}{19} \quad \left\{ \begin{matrix} -3 \\ 7 \\ 30 \end{matrix} \right\}$$

$$358) 4\frac{11}{20}b + \frac{1}{16} = 43\frac{137}{160} \quad \left\{ \begin{matrix} 9 \\ 5 \\ 8 \end{matrix} \right\}$$

$$359) -2\frac{2216}{4485} = -\frac{5}{13}x + \frac{11}{15} \quad \left\{ \begin{matrix} 8 \\ 9 \\ 23 \end{matrix} \right\}$$

$$360) 9\frac{11}{13} = -\frac{8}{5}n + 9\frac{11}{13}$$

{0}

$$361) -4\frac{3}{16} = -\frac{1}{6}v - 2\frac{5}{12} \quad \left\{10\frac{5}{8}\right\}$$

$$362) -2\frac{653}{780} = -\frac{13}{12} + \frac{9}{10}x \quad \left\{-1\frac{37}{39}\right\}$$

$$363) -20\frac{623}{960} = -1\frac{13}{14}x + \frac{13}{15} \quad \left\{11\frac{5}{32}\right\}$$

$$364) 20\frac{77}{640} = \frac{7}{4}a + \frac{1}{20} \quad \left\{11\frac{15}{32}\right\}$$

$$365) \frac{4}{9} + 2k = 25\frac{13}{36} \quad \left\{12\frac{11}{24}\right\}$$

$$366) -\frac{7}{4}m - 13 = -13\frac{7}{8} \quad \left\{\frac{1}{2}\right\}$$

$$367) -1\frac{7}{15} = 1\frac{11}{15}p + 2$$

$$368) -13\frac{818}{1197} = 1\frac{3}{19} + 7\frac{6}{7}x \quad \left\{-1\frac{8}{9}\right\}$$

$\{-2\}$

$$369) -35\frac{55}{108} = -\frac{5}{3}n - \frac{5}{4} \quad \left\{20\frac{5}{9}\right\}$$

$$370) 9\frac{1}{3} - \frac{3}{8}x = 10\frac{43}{300} \quad \left\{-2\frac{4}{25}\right\}$$

$$371) -5 = -3\frac{1}{3}r + \frac{5}{3}$$

$$372) \frac{3}{5}b + 4\frac{1}{3} = 8\frac{11}{30} \quad \left\{6\frac{13}{18}\right\}$$

$\{2\}$

$$373) 9\frac{5}{8} + 10\frac{17}{20}n = -2\frac{527}{1000} \quad \left\{-1\frac{3}{25}\right\}$$

$$374) 7\frac{4}{15}x - 2\frac{1}{12} = 96\frac{1}{60} \quad \left\{13\frac{1}{2}\right\}$$

$$375) 10\frac{1}{2}n + 4\frac{5}{8} = 8\frac{1}{8} \quad \left\{\frac{1}{3}\right\}$$

$$376) -\frac{26}{17}v + 4\frac{7}{8} = 7\frac{427}{680} \quad \left\{-1\frac{4}{5}\right\}$$

$$377) -3\frac{4}{5} - x = -4\frac{1}{95} \quad \left\{\frac{4}{19}\right\}$$

$$378) 8 + 5\frac{10}{11}k = 63\frac{15}{22} \quad \left\{9\frac{11}{26}\right\}$$

$$379) 16\frac{53}{221} = -2\frac{4}{13}a + 14 \quad \left\{-\frac{33}{34}\right\}$$

$$380) -31\frac{82}{133} = \frac{19}{14} - \frac{7}{4}x \quad \left\{18\frac{16}{19}\right\}$$

$$381) -\frac{9}{20}n - \frac{7}{13} = \frac{83}{715} \quad \left\{-1\frac{5}{11}\right\}$$

$$382) -\frac{99}{152} = \frac{7}{8} + 1\frac{10}{19}m$$

$\{-1\}$

$$383) 6\frac{1}{6}p + 7\frac{5}{14} = 129\frac{25}{168} \quad \left\{19\frac{3}{4}\right\}$$

$$384) 2\frac{1}{2} - 20r = -110\frac{1}{2} \quad \left\{5\frac{13}{20}\right\}$$

$$385) 1\frac{7}{10} = 2x - \frac{3}{2} \quad \left\{1\frac{3}{5}\right\}$$

$$386) 5\frac{9}{112} = 9\frac{3}{16} - n \quad \left\{4\frac{3}{28}\right\}$$

$$387) -\frac{31}{18} + 1\frac{1}{3}n = -3\frac{1}{18}$$

$$\{-1\}$$

$$388) \frac{1}{2}x + \frac{9}{7} = 11\frac{13}{168} \left\{19\frac{7}{12}\right\}$$

$$389) 3\frac{4779}{5320} = \frac{36}{19} - 3\frac{9}{14}m \left\{-\frac{11}{20}\right\}$$

$$390) \frac{5}{4} - \frac{8}{5}b = -11\frac{91}{180} \left\{7\frac{35}{36}\right\}$$

$$391) -6v + 8\frac{11}{14} = 17\frac{11}{14} \left\{-1\frac{1}{2}\right\}$$

$$392) -4 + \frac{1}{2}a = -3\frac{17}{26} \left\{\frac{9}{13}\right\}$$

$$393) 39\frac{4793}{7163} = -\frac{8}{19} + 2\frac{7}{13}x \left\{15\frac{23}{29}\right\}$$

$$394) -2 + \frac{3}{11}k = 2\frac{125}{154} \left\{17\frac{9}{14}\right\}$$

$$395) -\frac{254}{357} = 2 - 2\frac{10}{17}x \left\{1\frac{1}{21}\right\}$$

$$396) 2\frac{8}{13}p + 7\frac{5}{8} = 8\frac{97}{104} \left\{\frac{1}{2}\right\}$$

$$397) 4\frac{219}{518} = 2x + \frac{15}{14} \left\{1\frac{25}{37}\right\}$$

$$398) -2\frac{1}{3} + \frac{13}{7}m = 18\frac{163}{210} \left\{11\frac{11}{30}\right\}$$

$$399) 10\frac{13}{17} + \frac{13}{20}r = 11\frac{2881}{7480} \left\{\frac{21}{22}\right\}$$

$$400) -2\frac{53}{380} = -2\frac{17}{20} - \frac{3}{2}n \left\{-\frac{9}{19}\right\}$$

$$401) -3\frac{1}{4} - 16n = -516\frac{35}{124} \left\{32\frac{2}{31}\right\}$$

$$402) \frac{37}{19}x - \frac{13}{12} = -82\frac{199}{228}$$

$\{-42\}$

$$403) \frac{2}{11} + 24v = 8\frac{97}{110} \left\{\frac{29}{80}\right\}$$

$$404) -12\frac{1273}{1320} = 8\frac{2}{5}b - 1\frac{31}{33} \left\{-1\frac{5}{16}\right\}$$

$$405) 13\frac{15}{17} - 3\frac{12}{37}n = 7\frac{147}{629}$$

$$406) 143\frac{2947}{3960} = -\frac{1}{8} + 4\frac{7}{30}x \left\{33\frac{65}{66}\right\}$$

$\{2\}$

$$407) -31\frac{43}{76} = -\frac{7}{4}a + \frac{4}{19} \left\{18\frac{3}{19}\right\}$$

$$408) -\frac{33}{35} - 2\frac{5}{21}x = -17\frac{5161}{7245} \left\{7\frac{34}{69}\right\}$$

$$409) \frac{20}{11}k - \frac{13}{7} = -4\frac{3}{77} \left\{-1\frac{1}{5}\right\}$$

$$410) 70\frac{41}{370} = 1\frac{3}{4}x + \frac{3}{10} \left\{39\frac{33}{37}\right\}$$

$$411) -88\frac{5}{14} = 2 + 1\frac{9}{14}n$$

$$412) -42\frac{257}{3444} = 15\frac{17}{28} - \frac{32}{21}x \left\{37\frac{35}{41}\right\}$$

$\{-55\}$

$$413) 17\frac{25}{29}p - \frac{10}{9} = 15\frac{365}{2871} \left\{ \begin{matrix} 10 \\ 11 \end{matrix} \right\}$$

$$414) 1193\frac{3}{32} = -18m + 5\frac{3}{32}$$

$$\{-66\}$$

$$415) \frac{26}{31} + 24\frac{17}{25}n = -16\frac{2493}{10075} \left\{ \begin{matrix} -9 \\ 13 \end{matrix} \right\}$$

$$416) -\frac{11}{31}r - \frac{1}{2} = -1\frac{1933}{3658} \left\{ \begin{matrix} 2\frac{53}{59} \end{matrix} \right\}$$

$$417) 6\frac{13}{22}m + 6\frac{1}{2} = 10\frac{23}{242} \left\{ \begin{matrix} 6 \\ 11 \end{matrix} \right\}$$

$$418) -3\frac{1}{20}n + \frac{35}{36} = -107\frac{230}{261} \left\{ \begin{matrix} 35\frac{20}{29} \end{matrix} \right\}$$

$$419) 14\frac{11}{13}b + 12 = 10\frac{4}{195} \left\{ \begin{matrix} -2 \\ 15 \end{matrix} \right\}$$

$$420) \frac{2647}{3960} = -\frac{3}{10} + \frac{13}{18}x \left\{ \begin{matrix} 1\frac{15}{44} \end{matrix} \right\}$$

$$421) -21x + \frac{1}{19} = 38\frac{469}{608} \left\{ \begin{matrix} -1\frac{27}{32} \end{matrix} \right\}$$

$$422) 19\frac{21}{44} = -\frac{3}{11} - \frac{1}{4}x$$

$$\{-79\}$$

$$423) 5\frac{23}{62} = -\frac{6}{25}v + 6\frac{9}{10} \left\{ \begin{matrix} 6\frac{23}{62} \end{matrix} \right\}$$

$$424) 12\frac{11}{12} + 8\frac{1}{2}a = 92\frac{13}{18} \left\{ \begin{matrix} 9\frac{7}{18} \end{matrix} \right\}$$

$$425) -\frac{11}{18} = -x - 2 \left\{ \begin{matrix} -1\frac{7}{18} \end{matrix} \right\}$$

$$426) -\frac{19}{13} + 17p = 100\frac{129}{650} \left\{ \begin{matrix} 5\frac{49}{50} \end{matrix} \right\}$$

$$427) -26\frac{599}{5200} = 19\frac{3}{10}k + 9\frac{13}{16} \left\{ \begin{matrix} -1\frac{56}{65} \end{matrix} \right\}$$

$$428) \frac{4}{3}n + 7\frac{3}{22} = 9\frac{3}{22} \left\{ \begin{matrix} 1\frac{1}{2} \end{matrix} \right\}$$

$$429) \frac{1}{6} - m = -23\frac{107}{204} \left\{ \begin{matrix} 23\frac{47}{68} \end{matrix} \right\}$$

$$430) -\frac{71}{38}r + 7\frac{29}{32} = 10\frac{12205}{16416} \left\{ \begin{matrix} -1\frac{14}{27} \end{matrix} \right\}$$

$$431) -5\frac{2987}{3315} = -\frac{22}{15} + \frac{21}{17}x \left\{ \begin{matrix} -3\frac{23}{39} \end{matrix} \right\}$$

$$432) 530\frac{23}{34} = 1 + 7\frac{23}{34}n$$

$$\{69\}$$

$$433) -49\frac{235}{594} = -\frac{23}{27}b + \frac{19}{22}$$

$$434) \frac{9}{20} + 3\frac{3}{34}x = 4\frac{1}{5} \left\{ \begin{matrix} 1\frac{3}{14} \end{matrix} \right\}$$

$$\{59\}$$

$$435) \frac{8}{5}a + 14\frac{13}{14} = 39\frac{1417}{5250} \left\{ \begin{matrix} 15\frac{16}{75} \end{matrix} \right\}$$

$$436) 712\frac{11}{80} = 25\frac{7}{16}n + 2\frac{1}{5} \left\{ \begin{matrix} 27\frac{10}{11} \end{matrix} \right\}$$

$$437) -5\frac{1663}{2166} = 3\frac{29}{38} - \frac{26}{19}v \left\{ \begin{matrix} 6\frac{55}{57} \end{matrix} \right\}$$

$$438) -\frac{28}{27}k - \frac{29}{33} = \frac{89}{4455} \left\{ \begin{matrix} -\frac{13}{15} \end{matrix} \right\}$$

$$439) -\frac{23}{25}x - 2\frac{37}{38} = -2\frac{38129}{42750} \left\{ -\frac{4}{45} \right\}$$

$$440) 2\frac{125}{322} = -\frac{11}{23}x + \frac{3}{2} \left\{ -1\frac{6}{7} \right\}$$

$$441) \frac{14}{9}n + \frac{11}{6} = 65\frac{331}{702} \left\{ 40\frac{71}{78} \right\}$$

$$442) -30m + 2\frac{13}{17} = 52\frac{13}{17} \left\{ -1\frac{2}{3} \right\}$$

$$443) 3\frac{17}{21}p + 30 = -118\frac{4}{7}$$

$$\{-39\}$$

$$444) -1 + 9\frac{1}{7}b = 117\frac{338}{469} \left\{ 12\frac{66}{67} \right\}$$

$$445) 82\frac{4791}{7429} = \frac{35}{19}x + 17\frac{7}{23} \left\{ 35\frac{8}{17} \right\}$$

$$446) -24\frac{192}{475} = \frac{32}{25} + 12\frac{16}{19}$$

$$\{-2\}$$

$$447) 1\frac{62}{525} = \frac{2}{5} + \frac{29}{15}r \left\{ \frac{13}{35} \right\}$$

$$448) 10\frac{1}{4}x + 32 = 368\frac{57}{80} \left\{ 32\frac{17}{20} \right\}$$

$$449) 328\frac{683}{910} = -\frac{14}{39} + 19\frac{6}{35}n \left\{ 17\frac{1}{6} \right\}$$

$$450) \frac{1}{4}b + 2\frac{9}{16} = 2\frac{57}{560} \left\{ -1\frac{59}{70} \right\}$$

$$451) 13\frac{1}{8} + \frac{11}{6}v = 59\frac{91}{456} \left\{ 25\frac{5}{38} \right\}$$

$$452) 20\frac{1}{168} = 18\frac{1}{4}x - \frac{9}{7} \left\{ 1\frac{1}{6} \right\}$$

$$453) -3\frac{3}{4}x + 13\frac{2}{35} = -106\frac{221}{420} \left\{ 31\frac{8}{9} \right\}$$

$$454) 3\frac{1103}{1804} = 3\frac{1}{36}k + 2\frac{2}{33} \left\{ \frac{21}{41} \right\}$$

$$455) 34p + \frac{34}{21} = 616\frac{26}{189} \left\{ 18\frac{2}{27} \right\}$$

$$456) 108\frac{37}{72} = 6\frac{5}{36} - \frac{13}{8}a$$

$$\{-63\}$$

$$457) \frac{361}{468} = -\frac{46}{39}x + \frac{1}{12} \left\{ -\frac{7}{12} \right\}$$

$$458) 14\frac{17}{18}n + 14\frac{17}{24} = 476\frac{139}{228} \left\{ 30\frac{69}{76} \right\}$$

$$459) 4\frac{2}{9} + \frac{5}{4}r = 24\frac{37}{72} \left\{ 16\frac{7}{30} \right\}$$

$$460) 4\frac{8}{15}x + \frac{29}{23} = 157\frac{4202}{5175} \left\{ 34\frac{8}{15} \right\}$$

$$461) 10\frac{2546}{4725} = -\frac{28}{27} + 6\frac{2}{35}m \left\{ 1\frac{41}{45} \right\}$$

$$462) 2\frac{13}{28}n - 3\frac{7}{8} = -\frac{185}{392} \left\{ 1\frac{8}{21} \right\}$$

$$463) 42\frac{73}{84} = 4b + \frac{25}{14} \left\{ 10\frac{13}{48} \right\}$$

$$464) 16\frac{25}{33} + 10\frac{13}{23}v = -\frac{403}{759} \left\{ -1\frac{7}{11} \right\}$$

$$465) -\frac{2}{19}n - \frac{31}{19} = -1\frac{28}{57} \left\{ -1\frac{1}{3} \right\}$$

$$466) 8\frac{1}{3}k + 19\frac{11}{30} = 32\frac{727}{1110} \left\{ 1\frac{22}{37} \right\}$$

$$467) 16\frac{7864}{20615} = \frac{14}{31}x - \frac{4}{35} \left\{ 36\frac{10}{19} \right\}$$

$$468) -40x + \frac{11}{10} = 4\frac{81}{110} \left\{ -\frac{1}{11} \right\}$$

$$469) 200\frac{497}{884} = 13\frac{7}{32}a + 3\frac{15}{26} \left\{ 14\frac{46}{51} \right\}$$

$$470) 32\frac{194}{2139} = \frac{43}{31}x + \frac{27}{31} \left\{ 22\frac{35}{69} \right\}$$

$$471) -4\frac{184}{187} = 14\frac{33}{34} - \frac{5}{6}n \left\{ 23\frac{52}{55} \right\}$$

$$472) 341\frac{8121}{9200} = 1\frac{13}{23} + 19\frac{7}{10}m \left\{ 17\frac{11}{40} \right\}$$

$$473) \frac{23}{15} - \frac{16}{11}p = -\frac{463}{825} \left\{ 1\frac{11}{25} \right\}$$

$$474) -\frac{1}{3} + 3\frac{1}{9}x = 4\frac{34}{81} \left\{ 1\frac{19}{36} \right\}$$

$$475) 15\frac{15}{19}n - \frac{1}{14} = 75\frac{6799}{7714} \left\{ 4\frac{47}{58} \right\}$$

$$476) 19\frac{1}{30} + \frac{1}{4}b = 18\frac{1213}{1290} \left\{ -\frac{16}{43} \right\}$$

$$477) \frac{4}{77} = -\frac{1}{2}r - \frac{6}{7} \left\{ -1\frac{9}{11} \right\}$$

$$478) -\frac{23}{13} - \frac{4}{11}b = -15\frac{2998}{3289} \left\{ 38\frac{41}{46} \right\}$$

$$479) 12\frac{2107}{2508} = 20\frac{1}{4} - \frac{8}{33}x \left\{ 30\frac{43}{76} \right\}$$

$$480) -15\frac{115}{366} = 8\frac{2}{5}n - \frac{1}{6} \left\{ -1\frac{49}{61} \right\}$$

$$481) \frac{7859}{11400} = \frac{23}{40}v + \frac{8}{19} \left\{ \frac{7}{15} \right\}$$

$$482) 8\frac{18}{19}x - \frac{13}{10} = 364\frac{413}{790} \left\{ 40\frac{70}{79} \right\}$$

$$483) 19\frac{13}{32} = \frac{3}{2} + \frac{2}{3}x \left\{ 26\frac{55}{64} \right\}$$

$$484) 6\frac{5}{22}k + \frac{6}{5} = 150\frac{611}{1980} \left\{ 23\frac{17}{18} \right\}$$

$$485) 1\frac{1}{2} = \frac{3}{2} + \frac{1}{7}p$$

$$486) 12\frac{314}{825} = 12\frac{20}{33}a + 16\frac{2}{3} \left\{ -\frac{17}{50} \right\}$$

{0}

$$487) -\frac{7}{18} - \frac{23}{19}x = -26\frac{9589}{11628} \left\{ 21\frac{57}{68} \right\}$$

$$488) -22\frac{291}{371} = 5\frac{6}{7} + 33n \left\{ -\frac{46}{53} \right\}$$

$$489) -\frac{20}{21}m + 20\frac{11}{18} = 18\frac{221}{294} \left\{ 1\frac{20}{21} \right\}$$

$$490) 13 + 9\frac{18}{25}x = 7\frac{1416}{1775} \left\{ -\frac{38}{71} \right\}$$

$$491) 59\frac{17}{60} = -\frac{1}{2} + \frac{17}{10}r \quad \left\{35\frac{1}{6}\right\}$$

$$492) -\frac{8}{15} + 7\frac{13}{18}n = 186\frac{674}{1755} \quad \left\{24\frac{8}{39}\right\}$$

$$493) 2v - \frac{23}{27} = 2\frac{128}{135} \quad \left\{1\frac{9}{10}\right\}$$

$$494) 2\frac{553}{912} = \frac{5}{4}b + \frac{4}{19} \quad \left\{1\frac{11}{12}\right\}$$

$$495) 35\frac{1}{29}x + 15\frac{4}{7} = 1211\frac{7148}{7511} \quad \left\{34\frac{11}{74}\right\}$$

$$496) \frac{7}{9} - \frac{4}{3}a = -38\frac{20}{63} \quad \left\{29\frac{9}{28}\right\}$$

$$497) -3\frac{13}{14} - \frac{20}{13}n = -6\frac{3}{182} \quad \left\{1\frac{5}{14}\right\}$$

$$498) 1\frac{289}{936} = 1\frac{23}{24} - \frac{4}{9}k \quad \left\{1\frac{6}{13}\right\}$$

$$499) 314\frac{9}{1078} = \frac{1}{2} + 9\frac{6}{7}x \quad \left\{31\frac{62}{77}\right\}$$

$$500) -30\frac{1}{4}x + 4\frac{17}{26} = -47\frac{571}{598} \quad \left\{1\frac{17}{23}\right\}$$