digraph Tree {

node [shape=box] ;

0 [label="Sex <= 0.5\ngini = 0.472\nsamples = 889\nvalue = [549, 340]"] ;

1 [label="Pclass <= 2.5\ngini = 0.384\nsamples = 312\nvalue = [81, 231]"] ;

0 -> 1 [labeldistance=2.5, labelangle=45, headlabel="True"] ;

2 [label="Age <= 2.5\ngini = 0.101\nsamples = 168\nvalue = [9, 159]"] ;

1 -> 2 ;

3 [label="Fare <= 88.775\ngini = 0.5\nsamples = 2\nvalue = [1, 1]"] ;

2 -> 3 ;

4 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

3 -> 4 ;

5 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

3 -> 5 ;

6 [label="Fare <= 28.856\ngini = 0.092\nsamples = 166\nvalue = [8, 158]"] ;

2 -> 6 ;

7 [label="Fare <= 28.231\ngini = 0.182\nsamples = 69\nvalue = [7, 62]"] ;

6 -> 7 ;

8 [label="Age <= 56.0\ngini = 0.161\nsamples = 68\nvalue = [6, 62]"] ;

7 -> 8 ;

9 [label="Age <= 23.5\ngini = 0.14\nsamples = 66\nvalue = [5, 61]"] ;

8 -> 9 ;

10 [label="gini = 0.0\nsamples = 14\nvalue = [0, 14]"] ;

9 -> 10 ;

11 [label="Age <= 27.5\ngini = 0.174\nsamples = 52\nvalue = [5, 47]"] ;

9 -> 11 ;

12 [label="gini = 0.397\nsamples = 11\nvalue = [3, 8]"] ;

11 -> 12 ;

13 [label="gini = 0.093\nsamples = 41\nvalue = [2, 39]"] ;

11 -> 13 ;

14 [label="Pclass <= 1.5\ngini = 0.5\nsamples = 2\nvalue = [1, 1]"] ;

8 -> 14 ;

15 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

14 -> 15 ;

16 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

14 -> 16 ;

17 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

7 -> 17 ;

18 [label="Fare <= 149.035\ngini = 0.02\nsamples = 97\nvalue = [1, 96]"] ;

6 -> 18 ;

19 [label="gini = 0.0\nsamples = 79\nvalue = [0, 79]"] ;

18 -> 19 ;

20 [label="Fare <= 152.506\ngini = 0.105\nsamples = 18\nvalue = [1, 17]"] ;

18 -> 20 ;

21 [label="Age <= 23.5\ngini = 0.5\nsamples = 2\nvalue = [1, 1]"] ;

20 -> 21 ;

22 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

21 -> 22 ;

23 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

21 -> 23 ;

24 [label="gini = 0.0\nsamples = 16\nvalue = [0, 16]"] ;

20 -> 24 ;

25 [label="Fare <= 23.35\ngini = 0.5\nsamples = 144\nvalue = [72, 72]"] ;

1 -> 25 ;

26 [label="Fare <= 7.888\ngini = 0.484\nsamples = 117\nvalue = [48, 69]"] ;

25 -> 26 ;

27 [label="Fare <= 6.987\ngini = 0.408\nsamples = 42\nvalue = [12, 30]"] ;

26 -> 27 ;

28 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

27 -> 28 ;

29 [label="Fare <= 7.523\ngini = 0.393\nsamples = 41\nvalue = [11, 30]"] ;

27 -> 29 ;

30 [label="gini = 0.0\nsamples = 6\nvalue = [0, 6]"] ;

29 -> 30 ;

31 [label="Age <= 15.0\ngini = 0.431\nsamples = 35\nvalue = [11, 24]"] ;

29 -> 31 ;

32 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

31 -> 32 ;

33 [label="Fare <= 7.64\ngini = 0.415\nsamples = 34\nvalue = [10, 24]"] ;

31 -> 33 ;

34 [label="gini = 0.444\nsamples = 3\nvalue = [2, 1]"] ;

33 -> 34 ;

35 [label="gini = 0.383\nsamples = 31\nvalue = [8, 23]"] ;

33 -> 35 ;

36 [label="Fare <= 15.373\ngini = 0.499\nsamples = 75\nvalue = [36, 39]"] ;

26 -> 36 ;

37 [label="Age <= 19.0\ngini = 0.48\nsamples = 45\nvalue = [27, 18]"] ;

36 -> 37 ;

38 [label="Fare <= 13.935\ngini = 0.444\nsamples = 15\nvalue = [5, 10]"] ;

37 -> 38 ;

39 [label="Age <= 3.0\ngini = 0.18\nsamples = 10\nvalue = [1, 9]"] ;

38 -> 39 ;

40 [label="gini = 0.444\nsamples = 3\nvalue = [1, 2]"] ;

39 -> 40 ;

41 [label="gini = 0.0\nsamples = 7\nvalue = [0, 7]"] ;

39 -> 41 ;

42 [label="Age <= 14.75\ngini = 0.32\nsamples = 5\nvalue = [4, 1]"] ;

38 -> 42 ;

43 [label="gini = 0.0\nsamples = 2\nvalue = [2, 0]"] ;

42 -> 43 ;

44 [label="gini = 0.444\nsamples = 3\nvalue = [2, 1]"] ;

42 -> 44 ;

45 [label="Age <= 25.5\ngini = 0.391\nsamples = 30\nvalue = [22, 8]"] ;

37 -> 45 ;

46 [label="gini = 0.0\nsamples = 8\nvalue = [8, 0]"] ;

45 -> 46 ;

47 [label="Age <= 27.5\ngini = 0.463\nsamples = 22\nvalue = [14, 8]"] ;

45 -> 47 ;

48 [label="gini = 0.0\nsamples = 4\nvalue = [0, 4]"] ;

47 -> 48 ;

49 [label="gini = 0.346\nsamples = 18\nvalue = [14, 4]"] ;

47 -> 49 ;

50 [label="Age <= 43.0\ngini = 0.42\nsamples = 30\nvalue = [9, 21]"] ;

36 -> 50 ;

51 [label="Age <= 6.5\ngini = 0.483\nsamples = 22\nvalue = [9, 13]"] ;

50 -> 51 ;

52 [label="Fare <= 20.167\ngini = 0.245\nsamples = 7\nvalue = [1, 6]"] ;

51 -> 52 ;

53 [label="gini = 0.0\nsamples = 5\nvalue = [0, 5]"] ;

52 -> 53 ;

54 [label="gini = 0.5\nsamples = 2\nvalue = [1, 1]"] ;

52 -> 54 ;

55 [label="Age <= 21.0\ngini = 0.498\nsamples = 15\nvalue = [8, 7]"] ;

51 -> 55 ;

56 [label="gini = 0.0\nsamples = 3\nvalue = [3, 0]"] ;

55 -> 56 ;

57 [label="gini = 0.486\nsamples = 12\nvalue = [5, 7]"] ;

55 -> 57 ;

58 [label="gini = 0.0\nsamples = 8\nvalue = [0, 8]"] ;

50 -> 58 ;

59 [label="Age <= 5.5\ngini = 0.198\nsamples = 27\nvalue = [24, 3]"] ;

25 -> 59 ;

60 [label="Fare <= 31.331\ngini = 0.444\nsamples = 3\nvalue = [2, 1]"] ;

59 -> 60 ;

61 [label="gini = 0.0\nsamples = 2\nvalue = [2, 0]"] ;

60 -> 61 ;

62 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

60 -> 62 ;

63 [label="Fare <= 24.808\ngini = 0.153\nsamples = 24\nvalue = [22, 2]"] ;

59 -> 63 ;

64 [label="Age <= 37.5\ngini = 0.375\nsamples = 4\nvalue = [3, 1]"] ;

63 -> 64 ;

65 [label="gini = 0.0\nsamples = 2\nvalue = [2, 0]"] ;

64 -> 65 ;

66 [label="Fare <= 23.8\ngini = 0.5\nsamples = 2\nvalue = [1, 1]"] ;

64 -> 66 ;

67 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

66 -> 67 ;

68 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

66 -> 68 ;

69 [label="Age <= 38.5\ngini = 0.095\nsamples = 20\nvalue = [19, 1]"] ;

63 -> 69 ;

70 [label="Age <= 29.5\ngini = 0.219\nsamples = 8\nvalue = [7, 1]"] ;

69 -> 70 ;

71 [label="gini = 0.0\nsamples = 7\nvalue = [7, 0]"] ;

70 -> 71 ;

72 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

70 -> 72 ;

73 [label="gini = 0.0\nsamples = 12\nvalue = [12, 0]"] ;

69 -> 73 ;

74 [label="Age <= 6.5\ngini = 0.306\nsamples = 577\nvalue = [468, 109]"] ;

0 -> 74 [labeldistance=2.5, labelangle=-45, headlabel="False"] ;

75 [label="Pclass <= 2.5\ngini = 0.444\nsamples = 24\nvalue = [8, 16]"] ;

74 -> 75 ;

76 [label="gini = 0.0\nsamples = 10\nvalue = [0, 10]"] ;

75 -> 76 ;

77 [label="Fare <= 20.825\ngini = 0.49\nsamples = 14\nvalue = [8, 6]"] ;

75 -> 77 ;

78 [label="gini = 0.0\nsamples = 5\nvalue = [0, 5]"] ;

77 -> 78 ;

79 [label="Fare <= 31.331\ngini = 0.198\nsamples = 9\nvalue = [8, 1]"] ;

77 -> 79 ;

80 [label="gini = 0.0\nsamples = 5\nvalue = [5, 0]"] ;

79 -> 80 ;

81 [label="Fare <= 35.538\ngini = 0.375\nsamples = 4\nvalue = [3, 1]"] ;

79 -> 81 ;

82 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

81 -> 82 ;

83 [label="gini = 0.0\nsamples = 3\nvalue = [3, 0]"] ;

81 -> 83 ;

84 [label="Pclass <= 1.5\ngini = 0.28\nsamples = 553\nvalue = [460, 93]"] ;

74 -> 84 ;

85 [label="Age <= 36.5\ngini = 0.46\nsamples = 120\nvalue = [77, 43]"] ;

84 -> 85 ;

86 [label="Fare <= 37.812\ngini = 0.497\nsamples = 39\nvalue = [18, 21]"] ;

85 -> 86 ;

87 [label="Fare <= 15.644\ngini = 0.355\nsamples = 13\nvalue = [3, 10]"] ;

86 -> 87 ;

88 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

87 -> 88 ;

89 [label="Fare <= 27.15\ngini = 0.278\nsamples = 12\nvalue = [2, 10]"] ;

87 -> 89 ;

90 [label="gini = 0.0\nsamples = 6\nvalue = [0, 6]"] ;

89 -> 90 ;

91 [label="Age <= 28.5\ngini = 0.444\nsamples = 6\nvalue = [2, 4]"] ;

89 -> 91 ;

92 [label="gini = 0.0\nsamples = 3\nvalue = [0, 3]"] ;

91 -> 92 ;

93 [label="gini = 0.444\nsamples = 3\nvalue = [2, 1]"] ;

91 -> 93 ;

94 [label="Fare <= 52.55\ngini = 0.488\nsamples = 26\nvalue = [15, 11]"] ;

86 -> 94 ;

95 [label="gini = 0.0\nsamples = 4\nvalue = [4, 0]"] ;

94 -> 95 ;

96 [label="Age <= 24.5\ngini = 0.5\nsamples = 22\nvalue = [11, 11]"] ;

94 -> 96 ;

97 [label="Age <= 17.5\ngini = 0.42\nsamples = 10\nvalue = [7, 3]"] ;

96 -> 97 ;

98 [label="gini = 0.0\nsamples = 2\nvalue = [0, 2]"] ;

97 -> 98 ;

99 [label="gini = 0.219\nsamples = 8\nvalue = [7, 1]"] ;

97 -> 99 ;

100 [label="Fare <= 61.8\ngini = 0.444\nsamples = 12\nvalue = [4, 8]"] ;

96 -> 100 ;

101 [label="gini = 0.0\nsamples = 3\nvalue = [0, 3]"] ;

100 -> 101 ;

102 [label="gini = 0.494\nsamples = 9\nvalue = [4, 5]"] ;

100 -> 102 ;

103 [label="Fare <= 26.144\ngini = 0.396\nsamples = 81\nvalue = [59, 22]"] ;

85 -> 103 ;

104 [label="gini = 0.0\nsamples = 9\nvalue = [9, 0]"] ;

103 -> 104 ;

105 [label="Age <= 53.0\ngini = 0.424\nsamples = 72\nvalue = [50, 22]"] ;

103 -> 105 ;

106 [label="Age <= 47.5\ngini = 0.468\nsamples = 51\nvalue = [32, 19]"] ;

105 -> 106 ;

107 [label="Fare <= 32.51\ngini = 0.411\nsamples = 38\nvalue = [27, 11]"] ;

106 -> 107 ;

108 [label="gini = 0.492\nsamples = 16\nvalue = [9, 7]"] ;

107 -> 108 ;

109 [label="gini = 0.298\nsamples = 22\nvalue = [18, 4]"] ;

107 -> 109 ;

110 [label="Fare <= 53.95\ngini = 0.473\nsamples = 13\nvalue = [5, 8]"] ;

106 -> 110 ;

111 [label="gini = 0.0\nsamples = 4\nvalue = [0, 4]"] ;

110 -> 111 ;

112 [label="gini = 0.494\nsamples = 9\nvalue = [5, 4]"] ;

110 -> 112 ;

113 [label="Age <= 75.5\ngini = 0.245\nsamples = 21\nvalue = [18, 3]"] ;

105 -> 113 ;

114 [label="Fare <= 35.077\ngini = 0.18\nsamples = 20\nvalue = [18, 2]"] ;

113 -> 114 ;

115 [label="gini = 0.0\nsamples = 11\nvalue = [11, 0]"] ;

114 -> 115 ;

116 [label="gini = 0.346\nsamples = 9\nvalue = [7, 2]"] ;

114 -> 116 ;

117 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

113 -> 117 ;

118 [label="Fare <= 51.698\ngini = 0.204\nsamples = 433\nvalue = [383, 50]"] ;

84 -> 118 ;

119 [label="Age <= 13.0\ngini = 0.193\nsamples = 417\nvalue = [372, 45]"] ;

118 -> 119 ;

120 [label="Fare <= 17.344\ngini = 0.444\nsamples = 12\nvalue = [8, 4]"] ;

119 -> 120 ;

121 [label="gini = 0.0\nsamples = 2\nvalue = [0, 2]"] ;

120 -> 121 ;

122 [label="Pclass <= 2.5\ngini = 0.32\nsamples = 10\nvalue = [8, 2]"] ;

120 -> 122 ;

123 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

122 -> 123 ;

124 [label="Fare <= 24.212\ngini = 0.198\nsamples = 9\nvalue = [8, 1]"] ;

122 -> 124 ;

125 [label="gini = 0.5\nsamples = 2\nvalue = [1, 1]"] ;

124 -> 125 ;

126 [label="gini = 0.0\nsamples = 7\nvalue = [7, 0]"] ;

124 -> 126 ;

127 [label="Age <= 32.25\ngini = 0.182\nsamples = 405\nvalue = [364, 41]"] ;

119 -> 127 ;

128 [label="Age <= 30.75\ngini = 0.222\nsamples = 204\nvalue = [178, 26]"] ;

127 -> 128 ;

129 [label="Pclass <= 2.5\ngini = 0.192\nsamples = 186\nvalue = [166, 20]"] ;

128 -> 129 ;

130 [label="gini = 0.05\nsamples = 39\nvalue = [38, 1]"] ;

129 -> 130 ;

131 [label="gini = 0.225\nsamples = 147\nvalue = [128, 19]"] ;

129 -> 131 ;

132 [label="Fare <= 7.815\ngini = 0.444\nsamples = 18\nvalue = [12, 6]"] ;

128 -> 132 ;

133 [label="gini = 0.0\nsamples = 3\nvalue = [3, 0]"] ;

132 -> 133 ;

134 [label="gini = 0.48\nsamples = 15\nvalue = [9, 6]"] ;

132 -> 134 ;

135 [label="Fare <= 7.91\ngini = 0.138\nsamples = 201\nvalue = [186, 15]"] ;

127 -> 135 ;

136 [label="Fare <= 7.227\ngini = 0.064\nsamples = 90\nvalue = [87, 3]"] ;

135 -> 136 ;

137 [label="gini = 0.0\nsamples = 28\nvalue = [28, 0]"] ;

136 -> 137 ;

138 [label="gini = 0.092\nsamples = 62\nvalue = [59, 3]"] ;

136 -> 138 ;

139 [label="Fare <= 7.988\ngini = 0.193\nsamples = 111\nvalue = [99, 12]"] ;

135 -> 139 ;

140 [label="gini = 0.5\nsamples = 4\nvalue = [2, 2]"] ;

139 -> 140 ;

141 [label="gini = 0.169\nsamples = 107\nvalue = [97, 10]"] ;

139 -> 141 ;

142 [label="Fare <= 63.023\ngini = 0.43\nsamples = 16\nvalue = [11, 5]"] ;

118 -> 142 ;

143 [label="Age <= 30.0\ngini = 0.408\nsamples = 7\nvalue = [2, 5]"] ;

142 -> 143 ;

144 [label="Age <= 27.0\ngini = 0.5\nsamples = 2\nvalue = [1, 1]"] ;

143 -> 144 ;

145 [label="gini = 0.0\nsamples = 1\nvalue = [0, 1]"] ;

144 -> 145 ;

146 [label="gini = 0.0\nsamples = 1\nvalue = [1, 0]"] ;

144 -> 146 ;

147 [label="Age <= 38.5\ngini = 0.32\nsamples = 5\nvalue = [1, 4]"] ;

143 -> 147 ;

148 [label="gini = 0.0\nsamples = 2\nvalue = [0, 2]"] ;

147 -> 148 ;

149 [label="gini = 0.444\nsamples = 3\nvalue = [1, 2]"] ;

147 -> 149 ;

150 [label="gini = 0.0\nsamples = 9\nvalue = [9, 0]"] ;

142 -> 150 ;

}