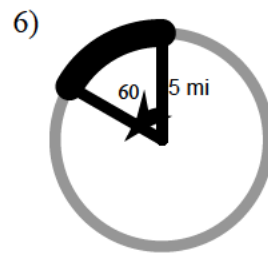
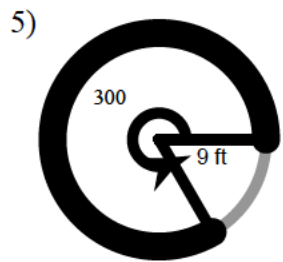
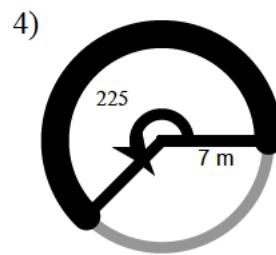
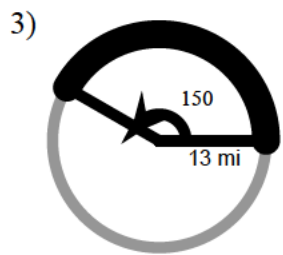
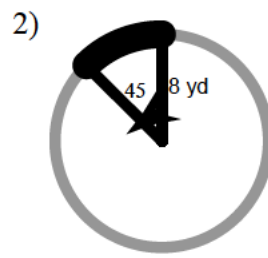
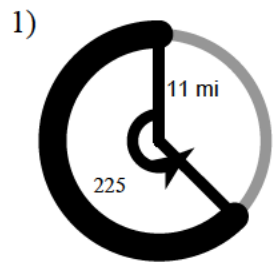
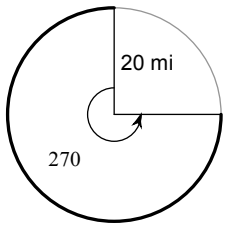


Circles - Arc length

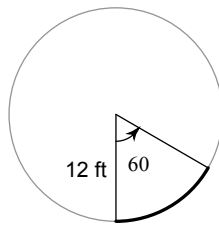
Find the arc length



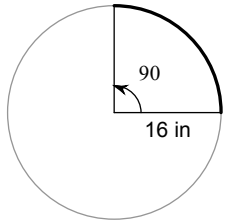
7)



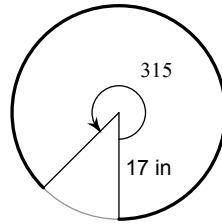
8)



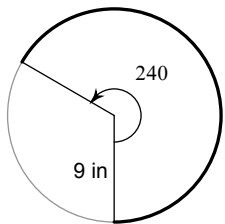
9)



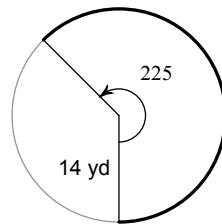
10)



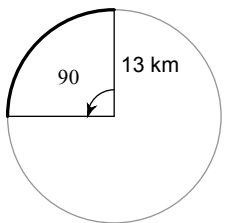
11)



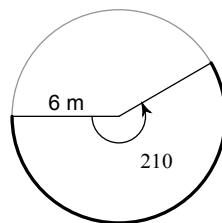
12)



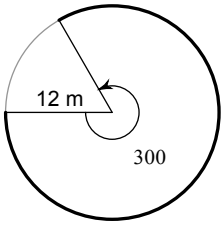
13)



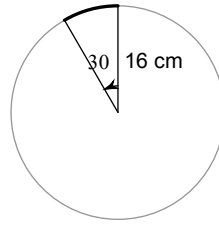
14)



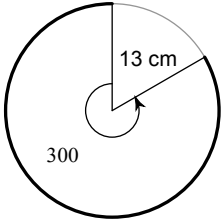
15)



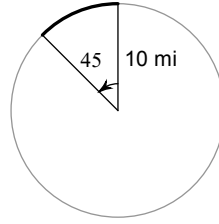
16)



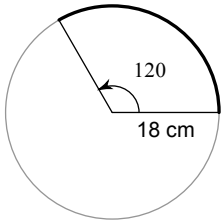
17)



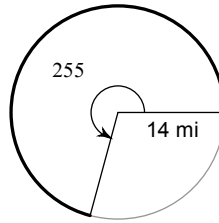
18)



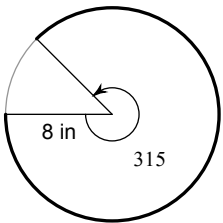
19)



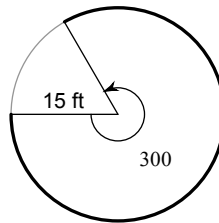
20)



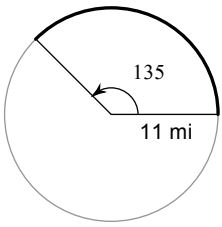
21)



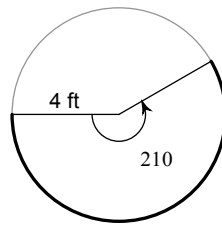
22)



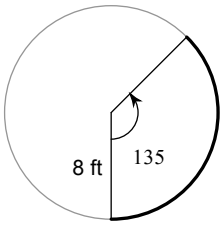
23)



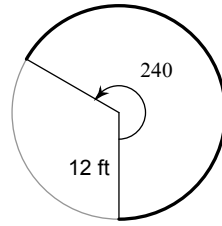
24)



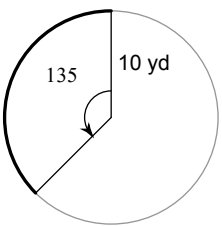
25)



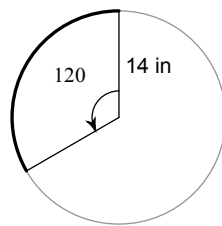
26)



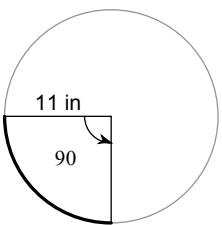
27)



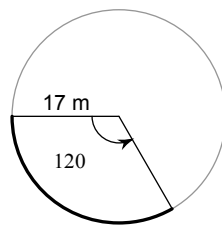
28)



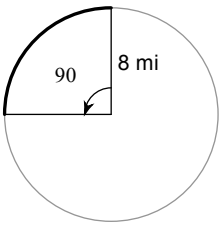
29)



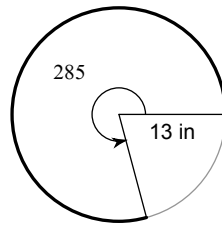
30)



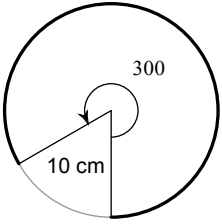
31)



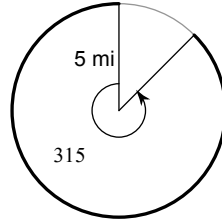
32)



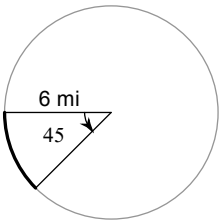
33)



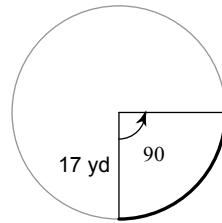
34)



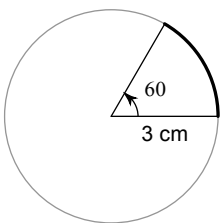
35)



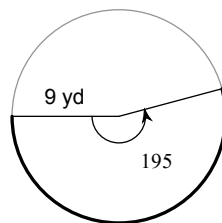
36)



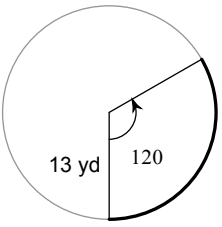
37)



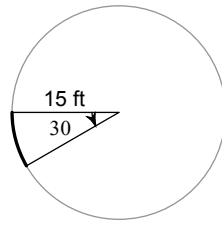
38)



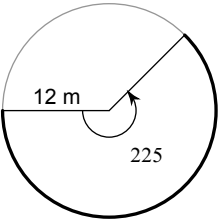
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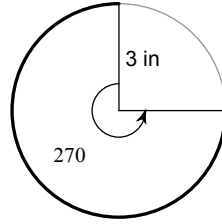
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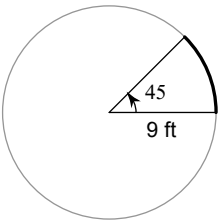
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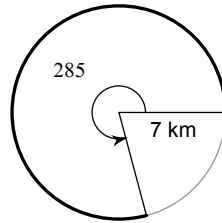
42)



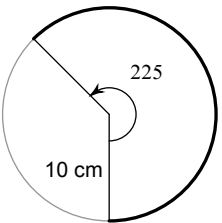
43)



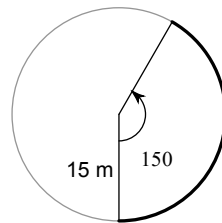
44)



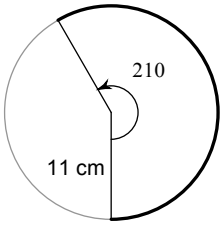
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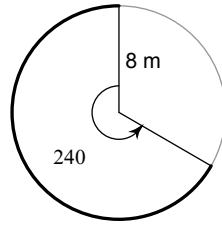
46)



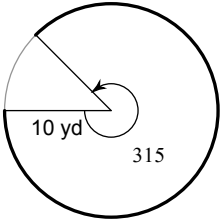
47)



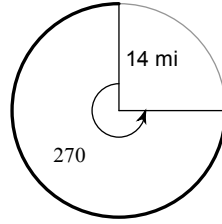
48)



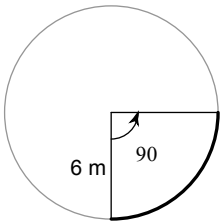
49)



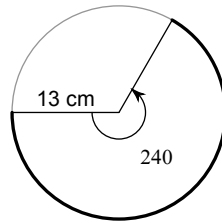
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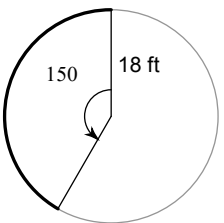
51)



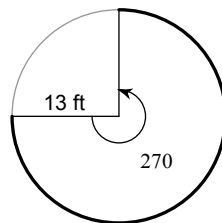
52)



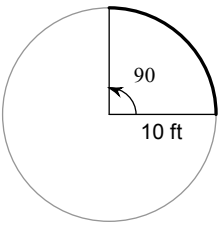
53)



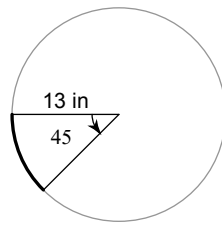
54)



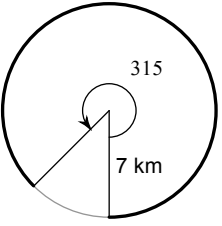
55)



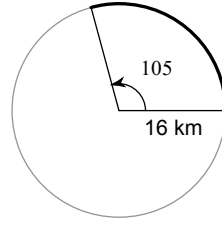
56)



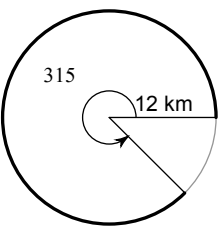
57)



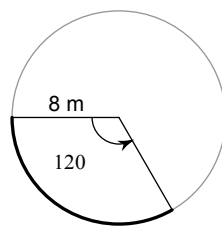
58)



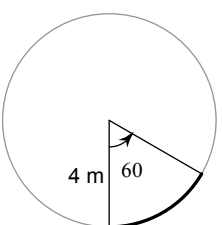
59)



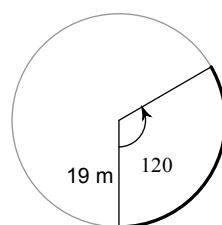
60)



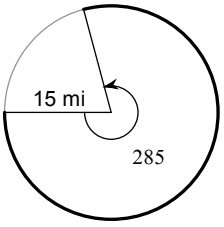
61)



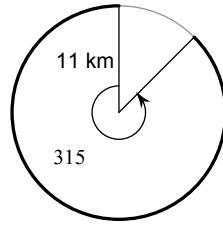
62)



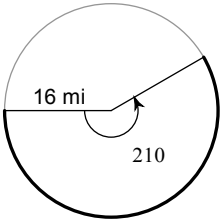
63)



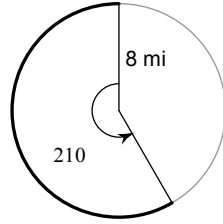
64)



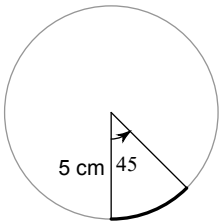
65)



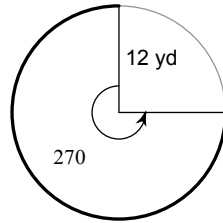
66)



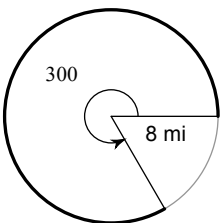
67)



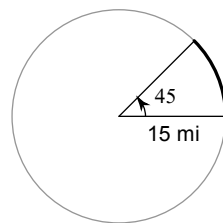
68)



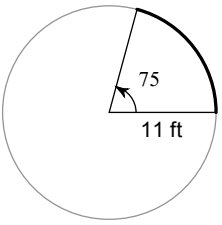
69)



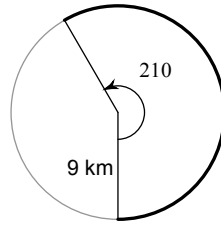
70)



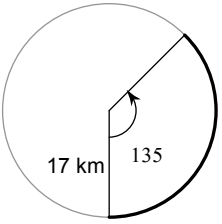
71)



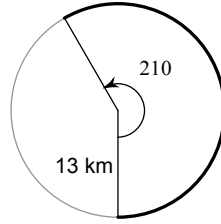
72)



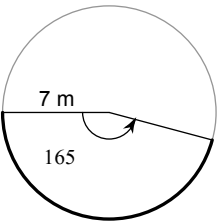
73)



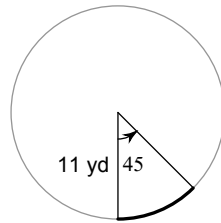
74)



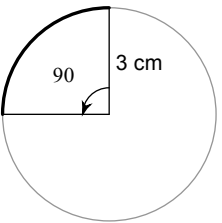
75)



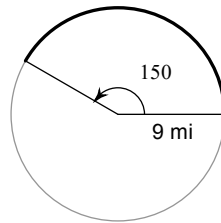
76)



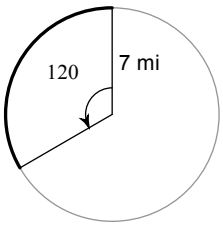
77)



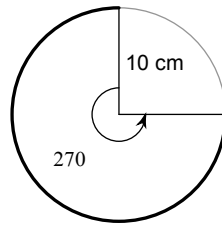
78)



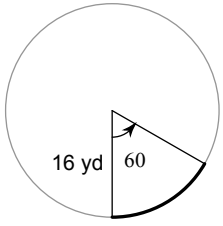
79)



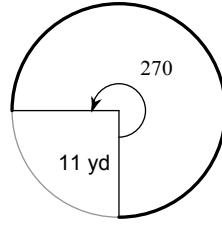
80)



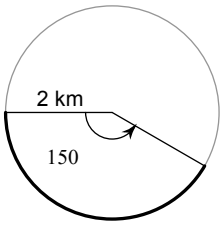
81)



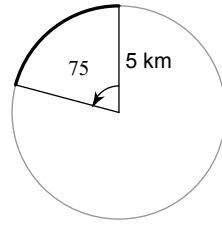
82)



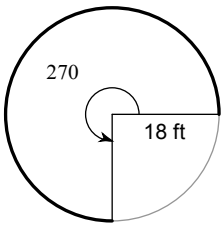
83)



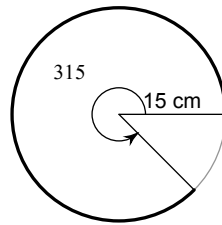
84)



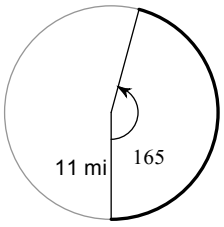
85)



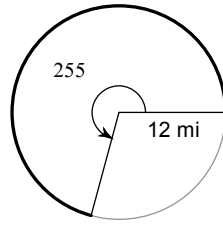
86)



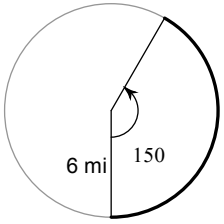
87)



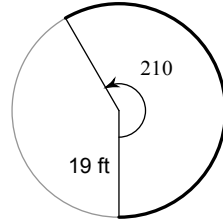
88)



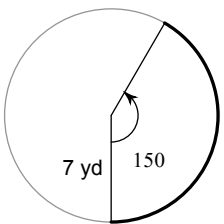
89)



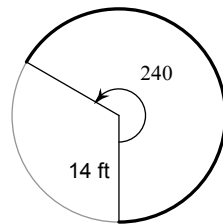
90)



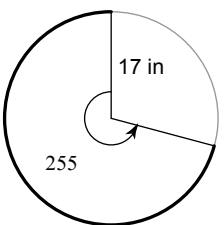
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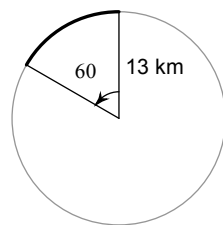
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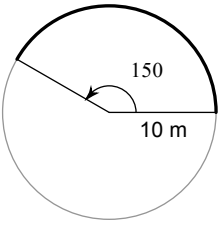
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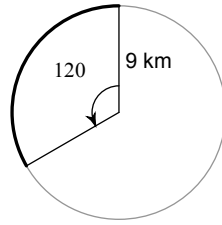
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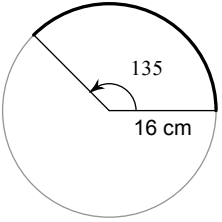
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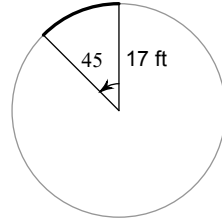
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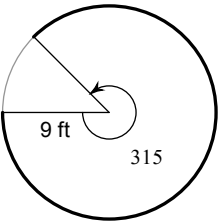
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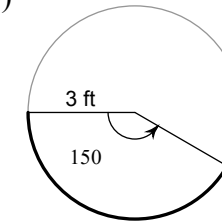
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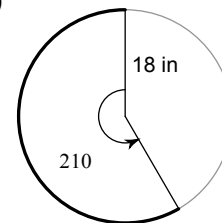
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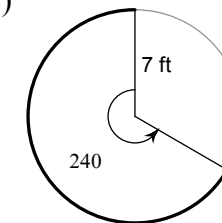
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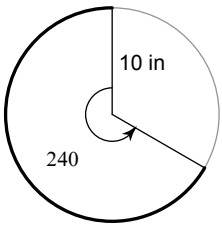
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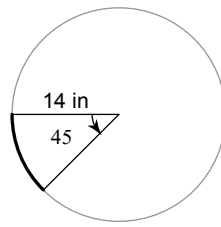
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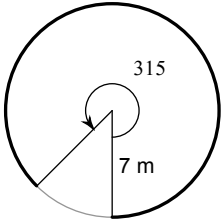
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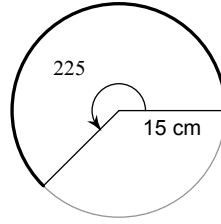
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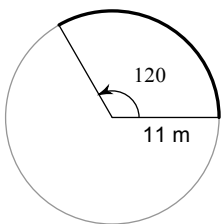
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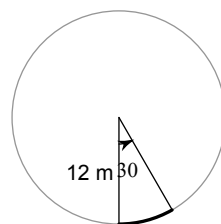
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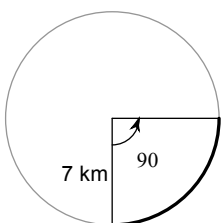
107)



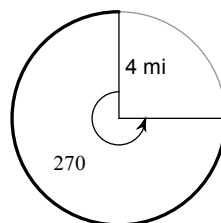
108)



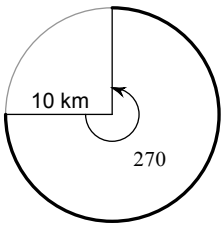
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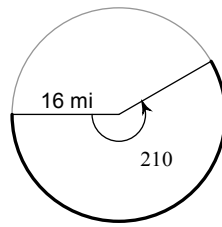
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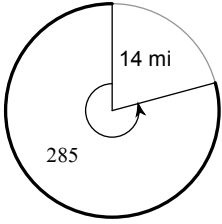
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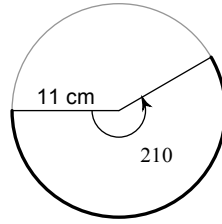
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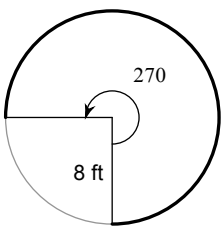
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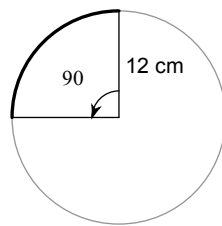
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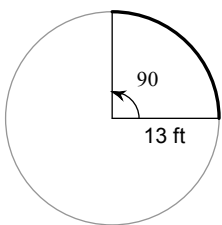
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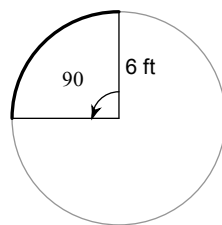
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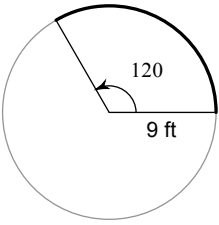
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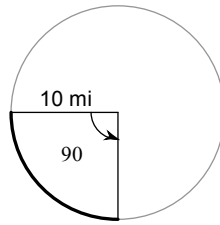
118)



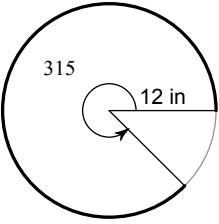
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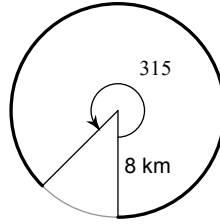
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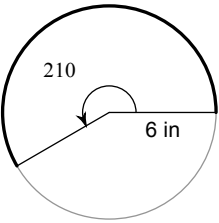
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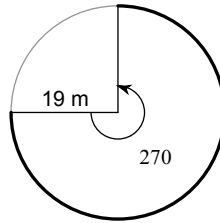
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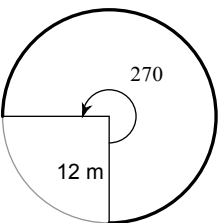
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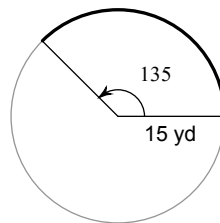
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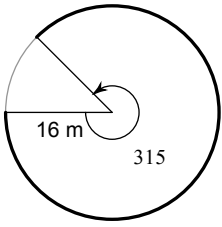
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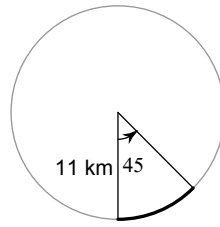
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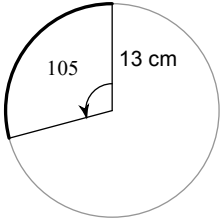
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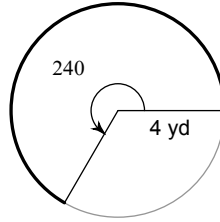
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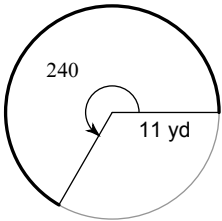
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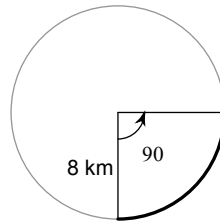
130)



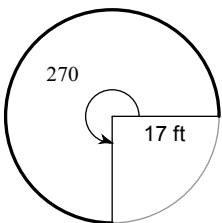
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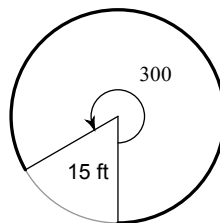
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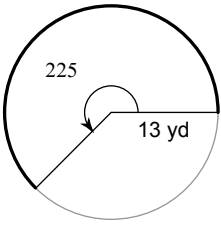
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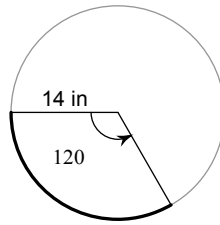
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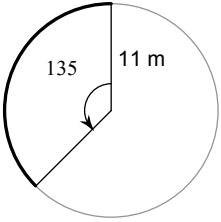
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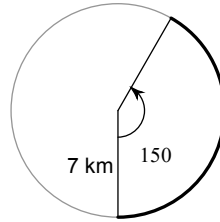
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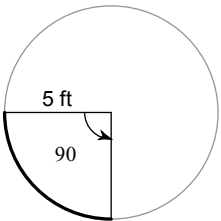
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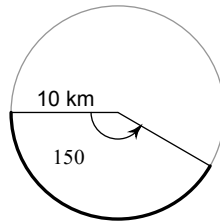
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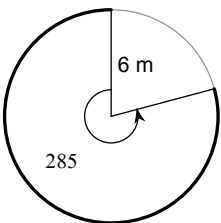
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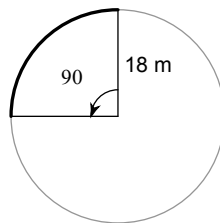
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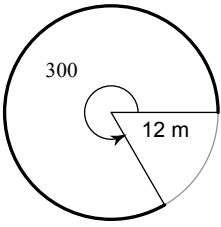
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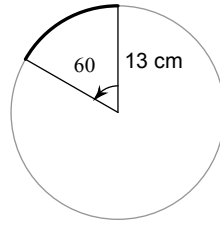
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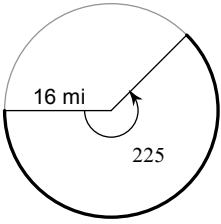
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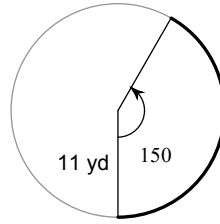
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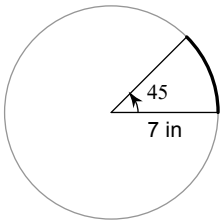
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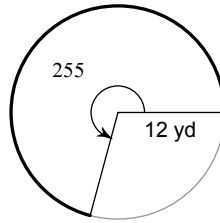
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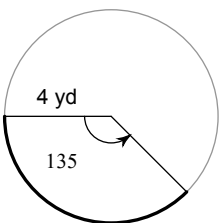
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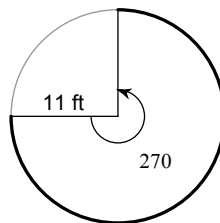
148)



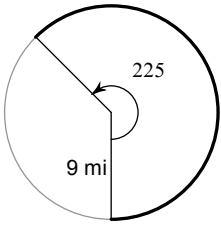
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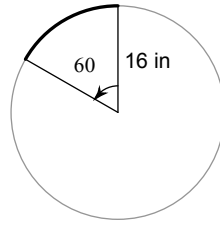
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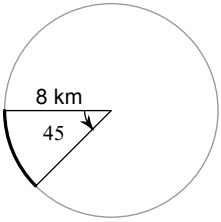
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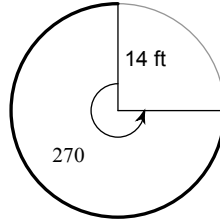
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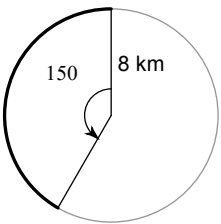
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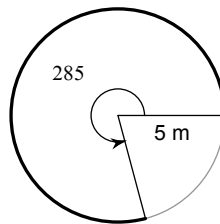
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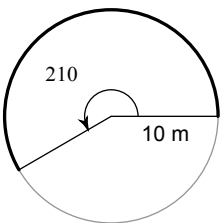
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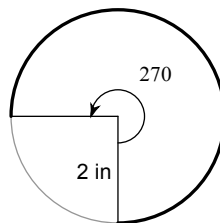
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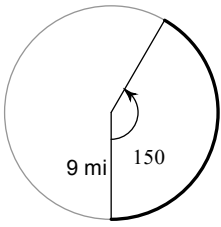
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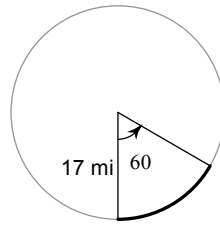
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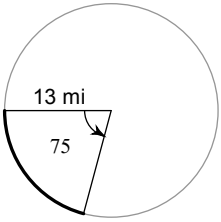
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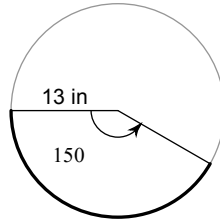
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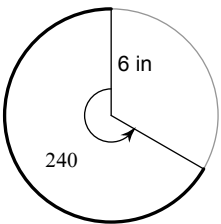
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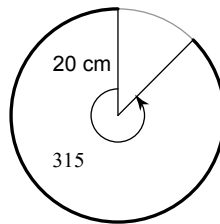
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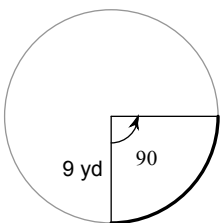
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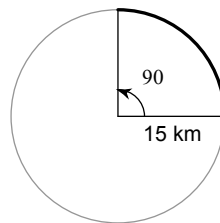
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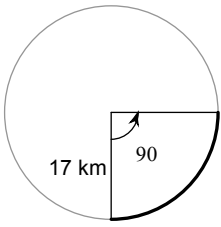
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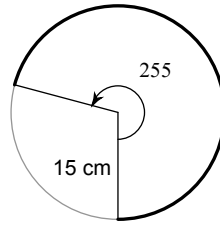
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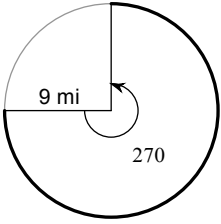
167)



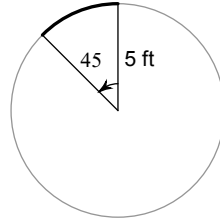
168)



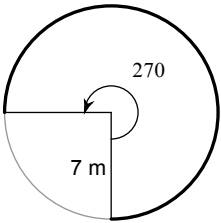
169)



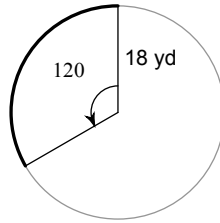
170)



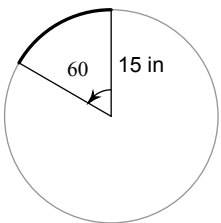
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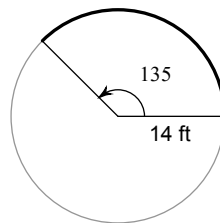
172)



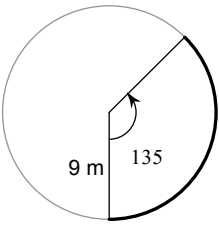
173)



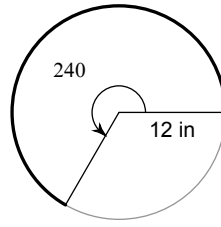
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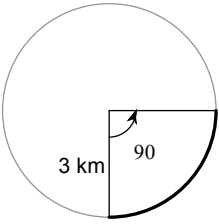
175)



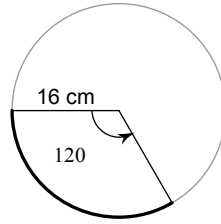
176)



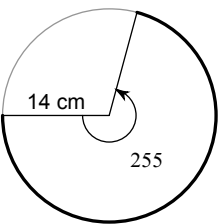
177)



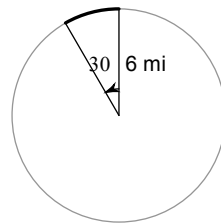
178)



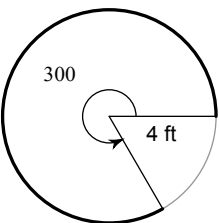
179)



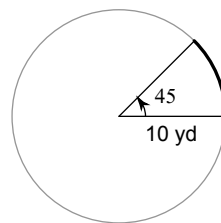
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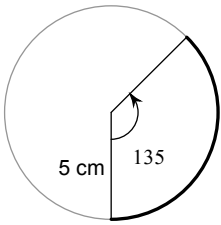
181)



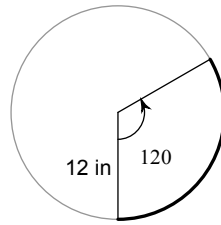
182)



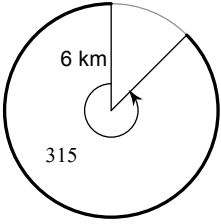
183)



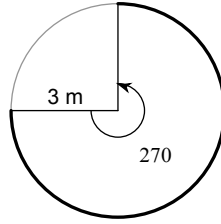
184)



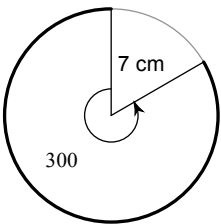
185)



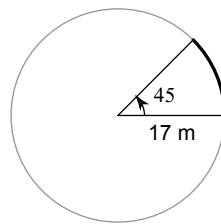
186)



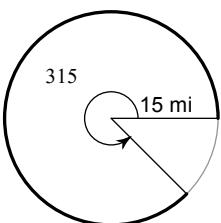
187)



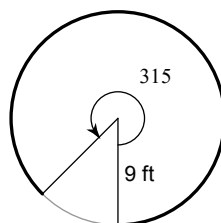
188)



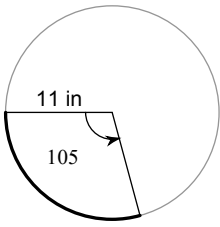
189)



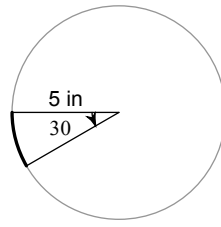
190)



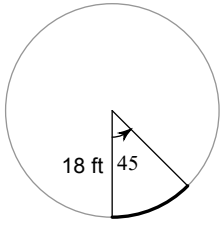
191)



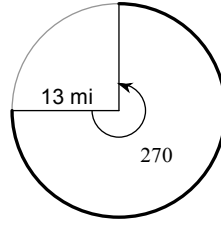
192)



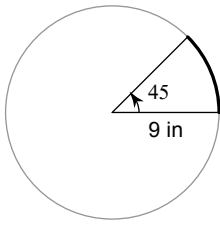
193)



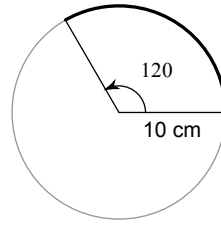
194)



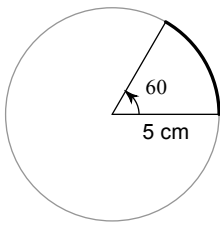
195)



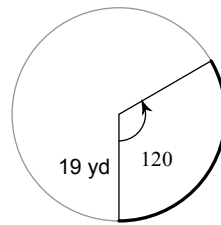
196)



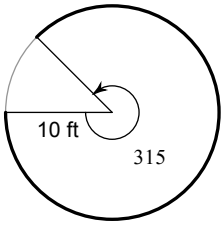
197)



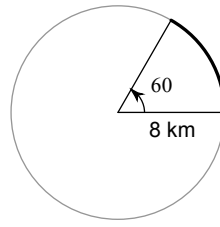
198)



199)



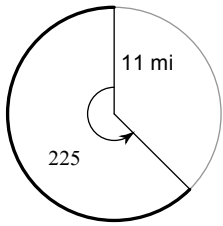
200)



Trigonometry - Arc length

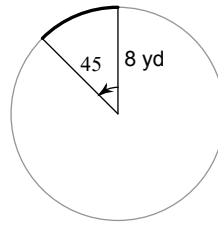
Find the arc length

1)



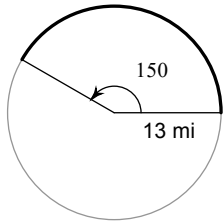
$$\frac{55\pi}{4} \text{ mi}$$

2)



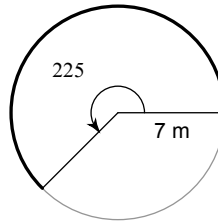
$$2\pi \text{ yd}$$

3)



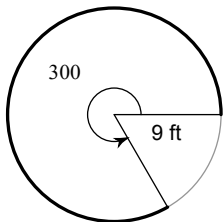
$$\frac{65\pi}{6} \text{ mi}$$

4)



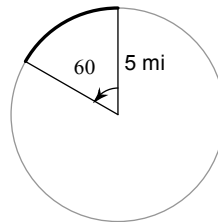
$$\frac{35\pi}{4} \text{ m}$$

5)



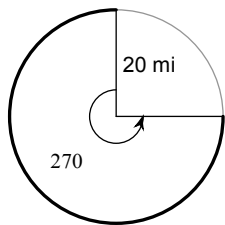
$$15\pi \text{ ft}$$

6)



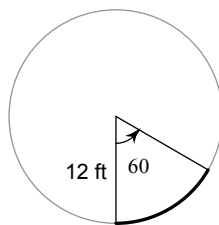
$$\frac{5\pi}{3} \text{ mi}$$

7)



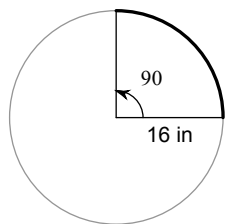
$$30\pi \text{ mi}$$

8)



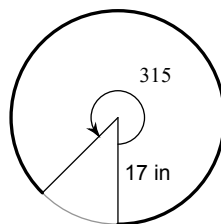
$$4\pi \text{ ft}$$

9)



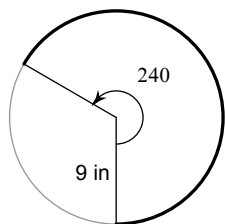
$$8\pi \text{ in}$$

10)



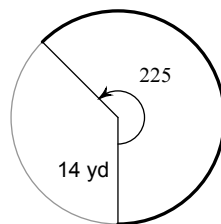
$$\frac{119\pi}{4} \text{ in}$$

11)



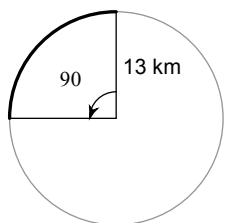
$$12\pi \text{ in}$$

12)



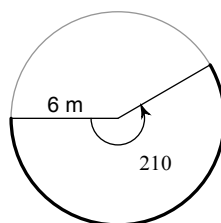
$$\frac{35\pi}{2} \text{ yd}$$

13)



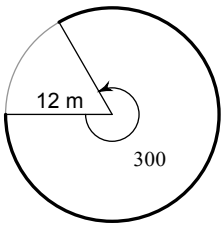
$$\frac{13\pi}{2} \text{ km}$$

14)



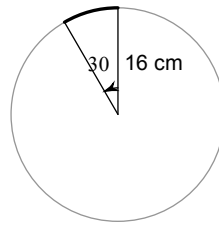
$$7\pi \text{ m}$$

15)



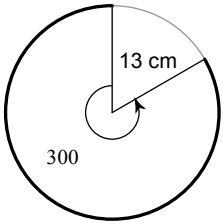
$$20\pi \text{ m}$$

16)



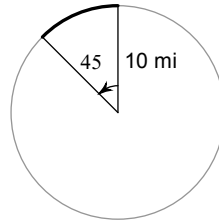
$$\frac{8\pi}{3} \text{ cm}$$

17)



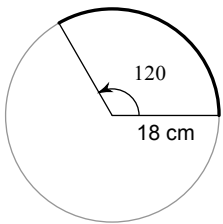
$$\frac{65\pi}{3} \text{ cm}$$

18)



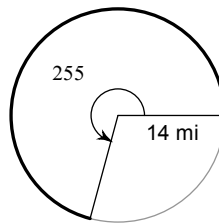
$$\frac{5\pi}{2} \text{ mi}$$

19)



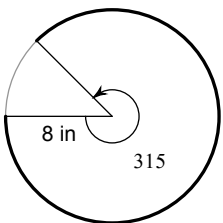
$$12\pi \text{ cm}$$

20)



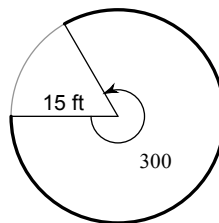
$$\frac{119\pi}{6} \text{ mi}$$

21)



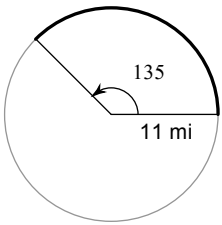
$$14\pi \text{ in}$$

22)



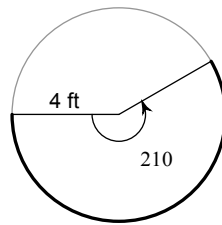
$$25\pi \text{ ft}$$

23)



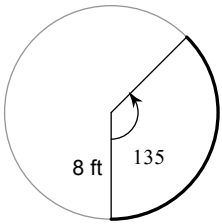
$$\frac{33\pi}{4} \text{ mi}$$

24)



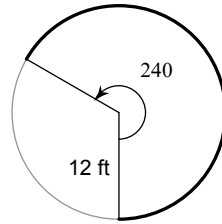
$$\frac{14\pi}{3} \text{ ft}$$

25)



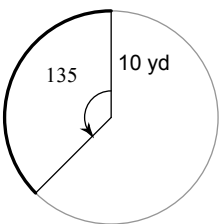
$$6\pi \text{ ft}$$

26)



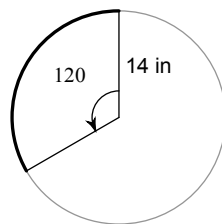
$$16\pi \text{ ft}$$

27)



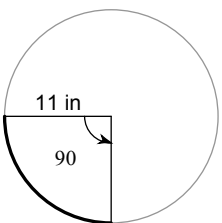
$$\frac{15\pi}{2} \text{ yd}$$

28)



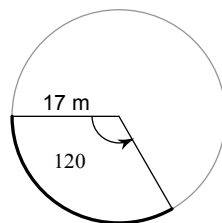
$$\frac{28\pi}{3} \text{ in}$$

29)



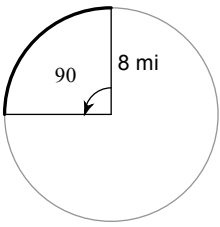
$$\frac{11\pi}{2} \text{ in}$$

30)



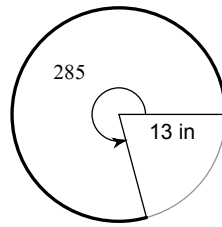
$$\frac{34\pi}{3} \text{ m}$$

31)



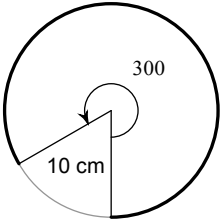
$$4\pi \text{ mi}$$

32)



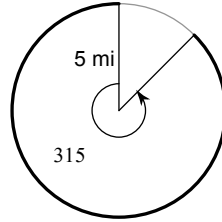
$$\frac{247\pi}{12} \text{ in}$$

33)



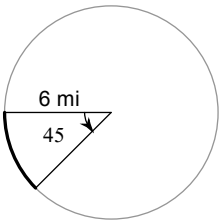
$$\frac{50\pi}{3} \text{ cm}$$

34)



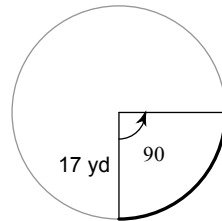
$$\frac{35\pi}{4} \text{ mi}$$

35)



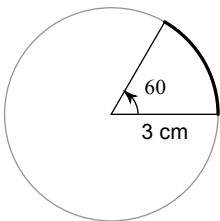
$$\frac{3\pi}{2} \text{ mi}$$

36)



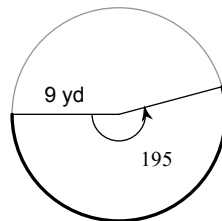
$$\frac{17\pi}{2} \text{ yd}$$

37)



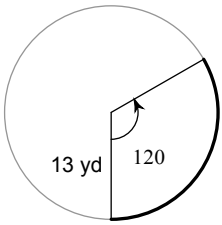
$$\pi \text{ cm}$$

38)



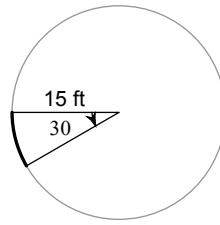
$$\frac{39\pi}{4} \text{ yd}$$

39)



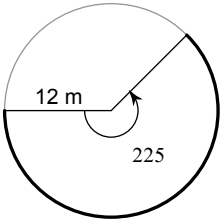
$$\frac{26\pi}{3} \text{ yd}$$

40)



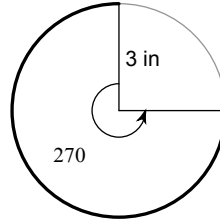
$$\frac{5\pi}{2} \text{ ft}$$

41)



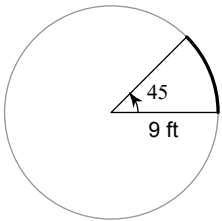
$$15\pi \text{ m}$$

42)



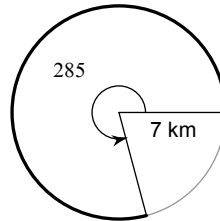
$$\frac{9\pi}{2} \text{ in}$$

43)



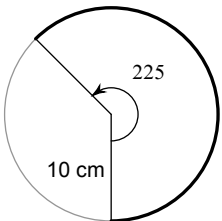
$$\frac{9\pi}{4} \text{ ft}$$

44)



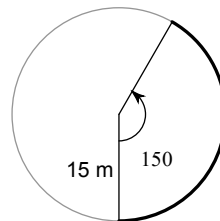
$$\frac{133\pi}{12} \text{ km}$$

45)



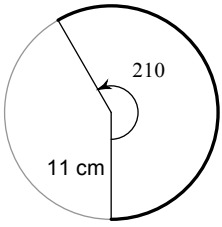
$$\frac{25\pi}{2} \text{ cm}$$

46)



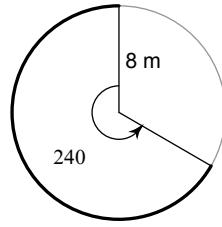
$$\frac{25\pi}{2} \text{ m}$$

47)



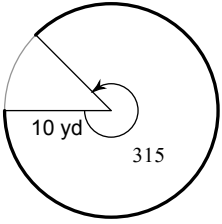
$$\frac{77\pi}{6} \text{ cm}$$

48)



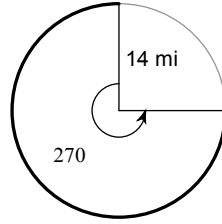
$$\frac{32\pi}{3} \text{ m}$$

49)



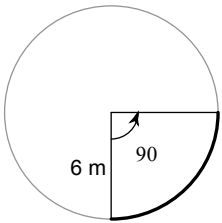
$$\frac{35\pi}{2} \text{ yd}$$

50)



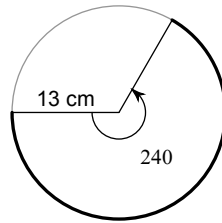
$$21\pi \text{ mi}$$

51)



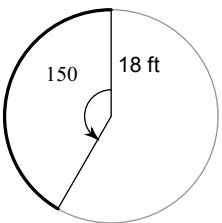
$$3\pi \text{ m}$$

52)



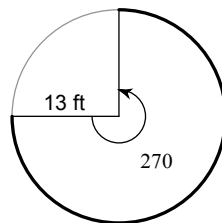
$$\frac{52\pi}{3} \text{ cm}$$

53)



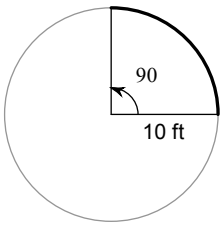
$$15\pi \text{ ft}$$

54)



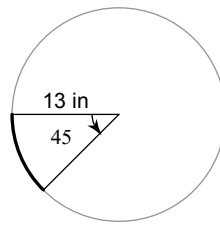
$$\frac{39\pi}{2} \text{ ft}$$

55)



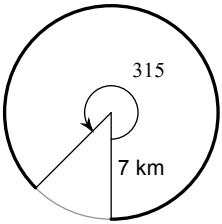
$$5\pi \text{ ft}$$

56)



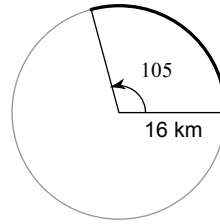
$$\frac{13\pi}{4} \text{ in}$$

57)



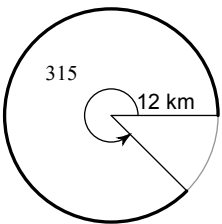
$$\frac{49\pi}{4} \text{ km}$$

58)



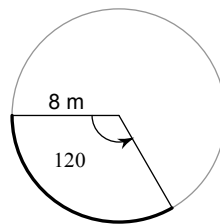
$$\frac{28\pi}{3} \text{ km}$$

59)



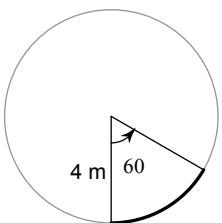
$$21\pi \text{ km}$$

60)



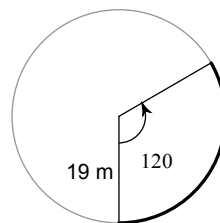
$$\frac{16\pi}{3} \text{ m}$$

61)



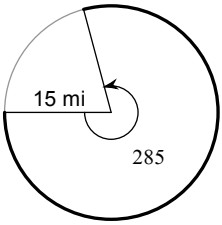
$$\frac{4\pi}{3} \text{ m}$$

62)



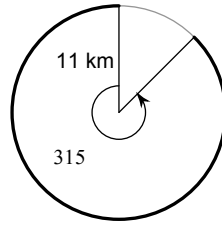
$$\frac{38\pi}{3} \text{ m}$$

63)



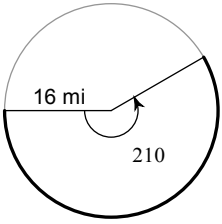
$$\frac{95\pi}{4} \text{ mi}$$

64)



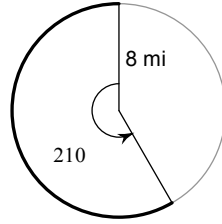
$$\frac{77\pi}{4} \text{ km}$$

65)



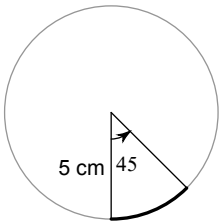
$$\frac{56\pi}{3} \text{ mi}$$

66)



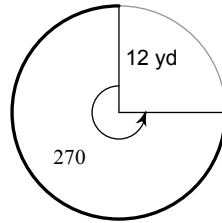
$$\frac{28\pi}{3} \text{ mi}$$

67)



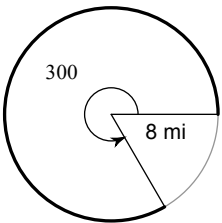
$$\frac{5\pi}{4} \text{ cm}$$

68)



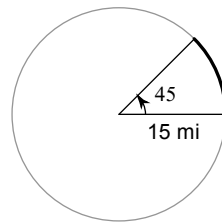
$$18\pi \text{ yd}$$

69)



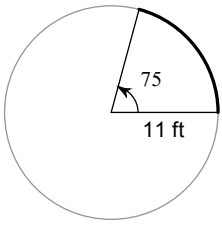
$$\frac{40\pi}{3} \text{ mi}$$

70)



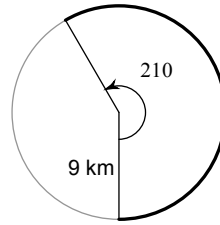
$$\frac{15\pi}{4} \text{ mi}$$

71)



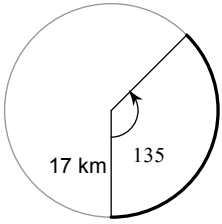
$$\frac{55\pi}{12} \text{ ft}$$

72)



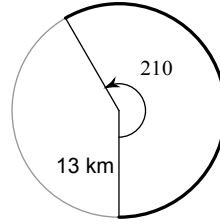
$$\frac{21\pi}{2} \text{ km}$$

73)



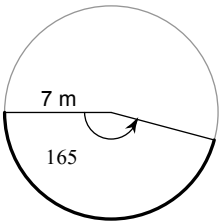
$$\frac{51\pi}{4} \text{ km}$$

74)



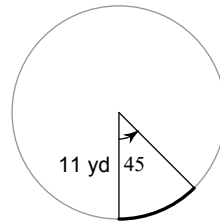
$$\frac{91\pi}{6} \text{ km}$$

75)



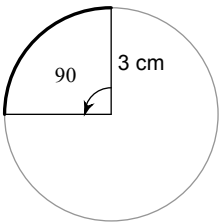
$$\frac{77\pi}{12} \text{ m}$$

76)



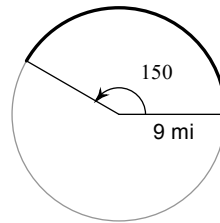
$$\frac{11\pi}{4} \text{ yd}$$

77)



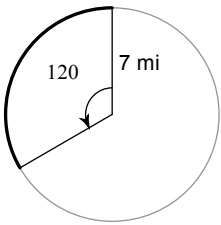
$$\frac{3\pi}{2} \text{ cm}$$

78)



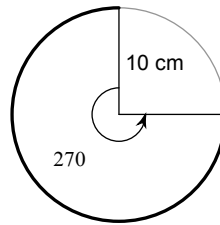
$$\frac{15\pi}{2} \text{ mi}$$

79)



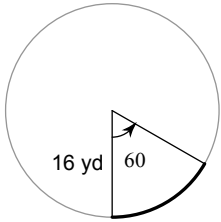
$$\frac{14\pi}{3} \text{ mi}$$

80)



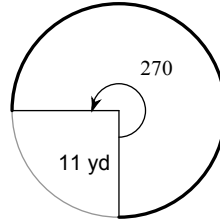
$$15\pi \text{ cm}$$

81)



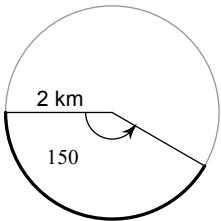
$$\frac{16\pi}{3} \text{ yd}$$

82)



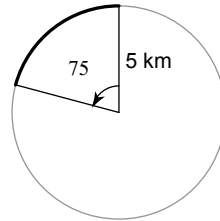
$$\frac{33\pi}{2} \text{ yd}$$

83)



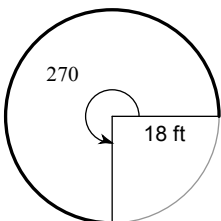
$$\frac{5\pi}{3} \text{ km}$$

84)



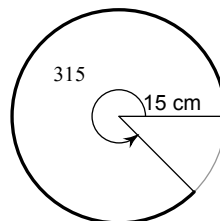
$$\frac{25\pi}{12} \text{ km}$$

85)



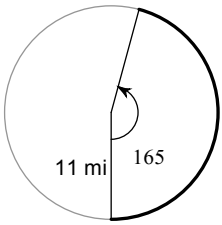
$$27\pi \text{ ft}$$

86)



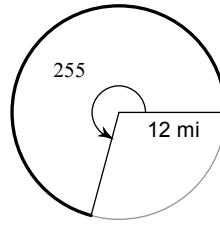
$$\frac{105\pi}{4} \text{ cm}$$

87)



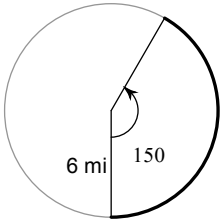
$$\frac{121\pi}{12} \text{ mi}$$

88)



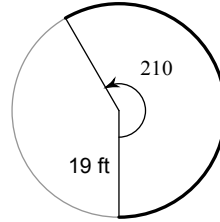
$$17\pi \text{ mi}$$

89)



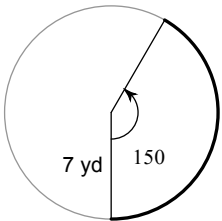
$$5\pi \text{ mi}$$

90)



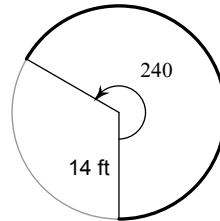
$$\frac{133\pi}{6} \text{ ft}$$

91)



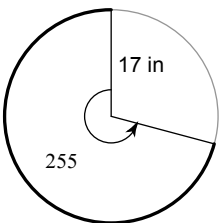
$$\frac{35\pi}{6} \text{ yd}$$

92)



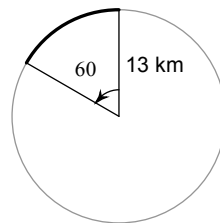
$$\frac{56\pi}{3} \text{ ft}$$

93)



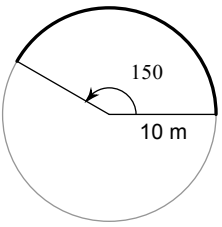
$$\frac{289\pi}{12} \text{ in}$$

94)



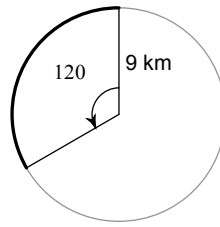
$$\frac{13\pi}{3} \text{ km}$$

95)



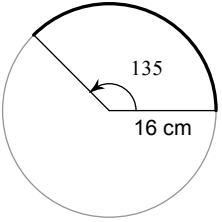
$$\frac{25\pi}{3} \text{ m}$$

96)



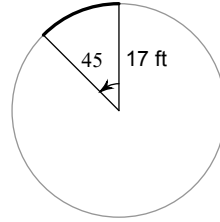
$$6\pi \text{ km}$$

97)



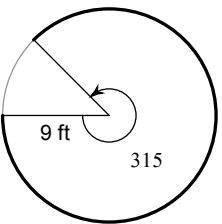
$$12\pi \text{ cm}$$

98)



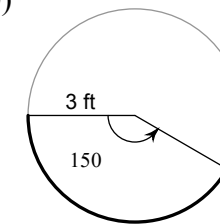
$$\frac{17\pi}{4} \text{ ft}$$

99)



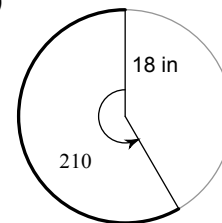
$$\frac{63\pi}{4} \text{ ft}$$

100)



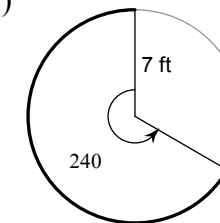
$$\frac{5\pi}{2} \text{ ft}$$

101)



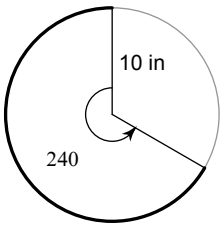
$$21\pi \text{ in}$$

102)



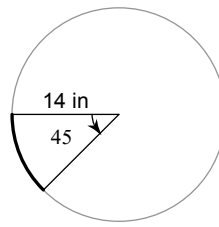
$$\frac{28\pi}{3} \text{ ft}$$

103)



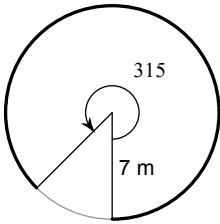
$$\frac{40\pi}{3} \text{ in}$$

104)



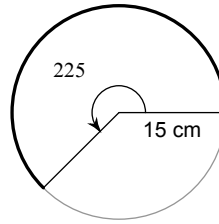
$$\frac{7\pi}{2} \text{ in}$$

105)



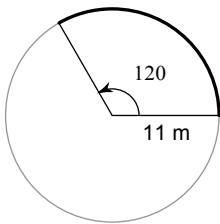
$$\frac{49\pi}{4} \text{ m}$$

106)



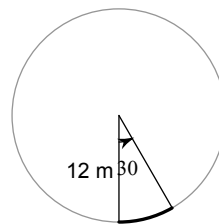
$$\frac{75\pi}{4} \text{ cm}$$

107)



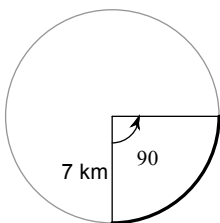
$$\frac{22\pi}{3} \text{ m}$$

108)



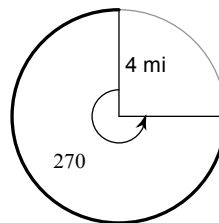
$$2\pi \text{ m}$$

109)



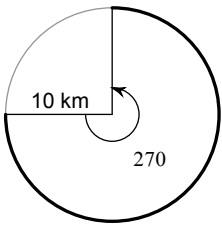
$$\frac{7\pi}{2} \text{ km}$$

110)



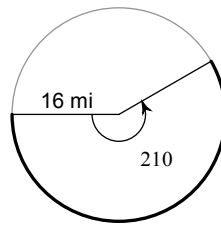
$$6\pi \text{ mi}$$

111)



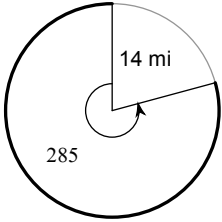
$$15\pi \text{ km}$$

112)



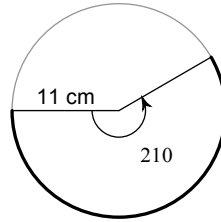
$$\frac{56\pi}{3} \text{ mi}$$

113)



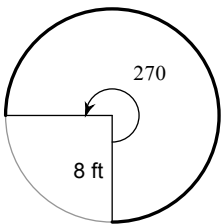
$$\frac{133\pi}{6} \text{ mi}$$

114)



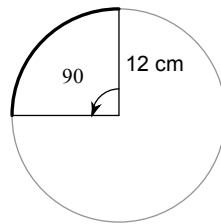
$$\frac{77\pi}{6} \text{ cm}$$

115)



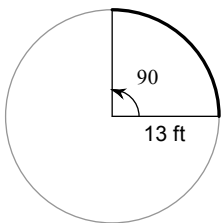
$$12\pi \text{ ft}$$

116)



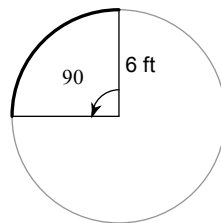
$$6\pi \text{ cm}$$

117)



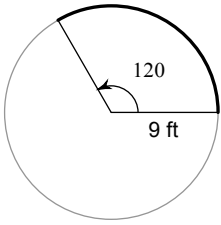
$$\frac{13\pi}{2} \text{ ft}$$

118)



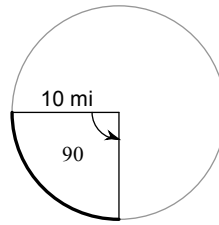
$$3\pi \text{ ft}$$

119)



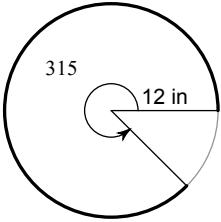
$$6\pi \text{ ft}$$

120)



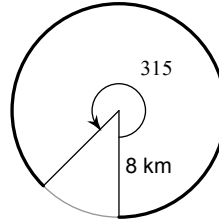
$$5\pi \text{ mi}$$

121)



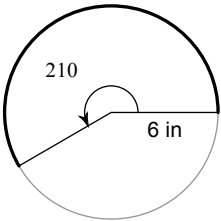
$$21\pi \text{ in}$$

122)



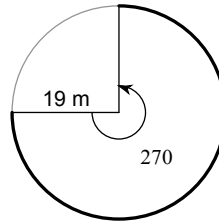
$$14\pi \text{ km}$$

123)



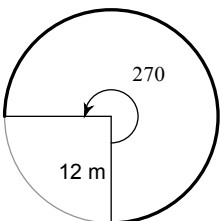
$$7\pi \text{ in}$$

124)



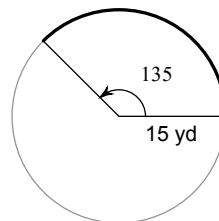
$$\frac{57\pi}{2} \text{ m}$$

125)



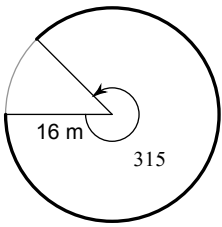
$$18\pi \text{ m}$$

126)



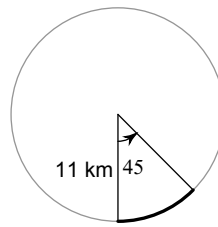
$$\frac{45\pi}{4} \text{ yd}$$

127)



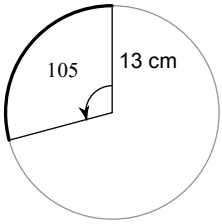
$$28\pi \text{ m}$$

128)



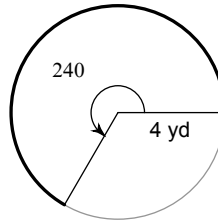
$$\frac{11\pi}{4} \text{ km}$$

129)



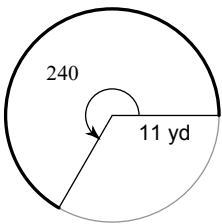
$$\frac{91\pi}{12} \text{ cm}$$

130)



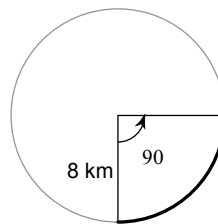
$$\frac{16\pi}{3} \text{ yd}$$

131)



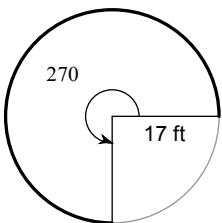
$$\frac{44\pi}{3} \text{ yd}$$

132)



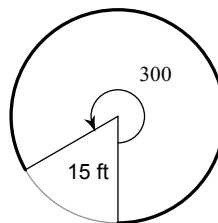
$$4\pi \text{ km}$$

133)



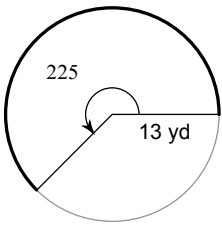
$$\frac{51\pi}{2} \text{ ft}$$

134)



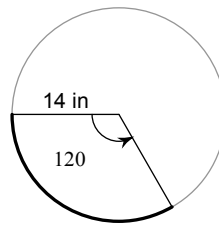
$$25\pi \text{ ft}$$

135)



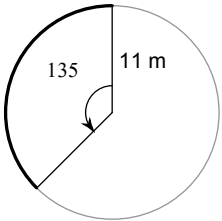
$$\frac{65\pi}{4} \text{ yd}$$

136)



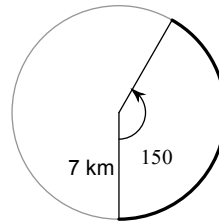
$$\frac{28\pi}{3} \text{ in}$$

137)



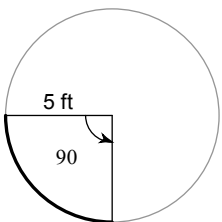
$$\frac{33\pi}{4} \text{ m}$$

138)



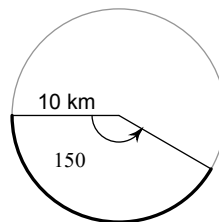
$$\frac{35\pi}{6} \text{ km}$$

139)



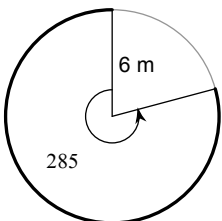
$$\frac{5\pi}{2} \text{ ft}$$

140)



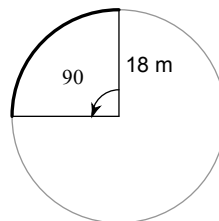
$$\frac{25\pi}{3} \text{ km}$$

141)



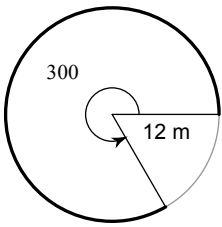
$$\frac{19\pi}{2} \text{ m}$$

142)



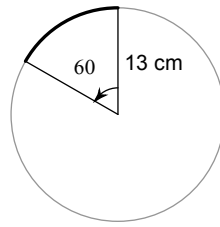
$$9\pi \text{ m}$$

143)



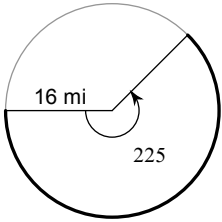
$$20\pi \text{ m}$$

144)



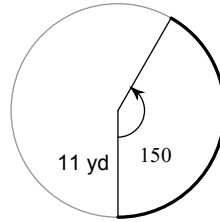
$$\frac{13\pi}{3} \text{ cm}$$

145)



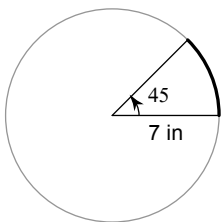
$$20\pi \text{ mi}$$

146)



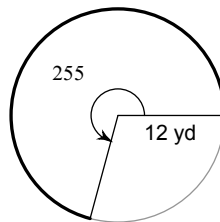
$$\frac{55\pi}{6} \text{ yd}$$

147)



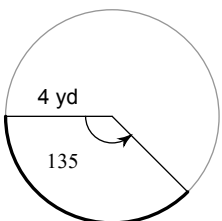
$$\frac{7\pi}{4} \text{ in}$$

148)



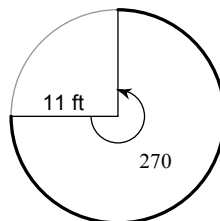
$$17\pi \text{ yd}$$

149)



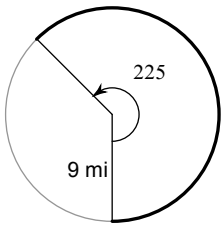
$$3\pi \text{ yd}$$

150)



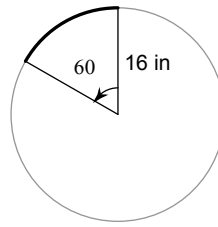
$$\frac{33\pi}{2} \text{ ft}$$

151)



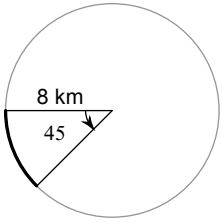
$$\frac{45\pi}{4} \text{ mi}$$

152)



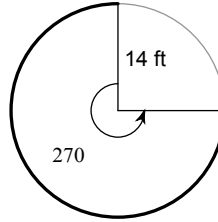
$$\frac{16\pi}{3} \text{ in}$$

153)



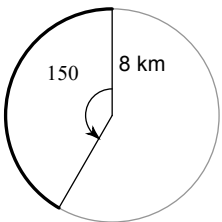
$$2\pi \text{ km}$$

154)



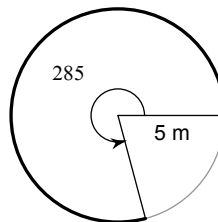
$$21\pi \text{ ft}$$

155)



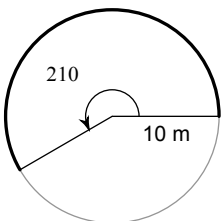
$$\frac{20\pi}{3} \text{ km}$$

156)



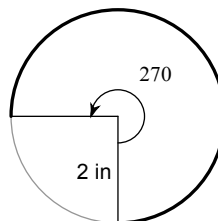
$$\frac{95\pi}{12} \text{ m}$$

157)



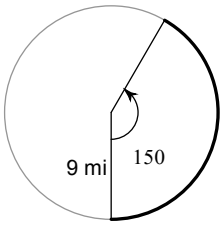
$$\frac{35\pi}{3} \text{ m}$$

158)



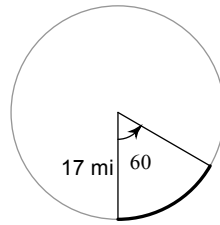
$$3\pi \text{ in}$$

159)



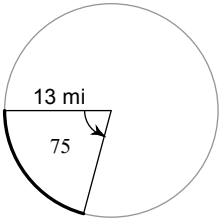
$$\frac{15\pi}{2} \text{ mi}$$

160)



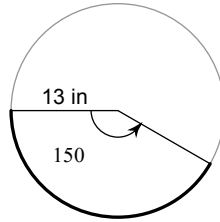
$$\frac{17\pi}{3} \text{ mi}$$

161)



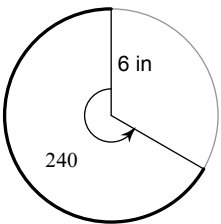
$$\frac{65\pi}{12} \text{ mi}$$

162)



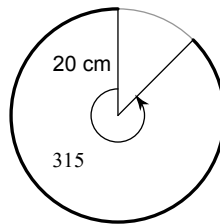
$$\frac{65\pi}{6} \text{ in}$$

163)



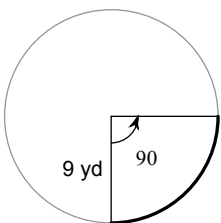
$$8\pi \text{ in}$$

164)



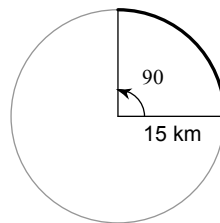
$$35\pi \text{ cm}$$

165)



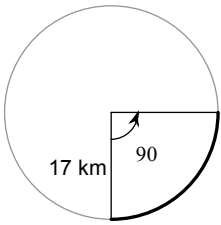
$$\frac{9\pi}{2} \text{ yd}$$

166)



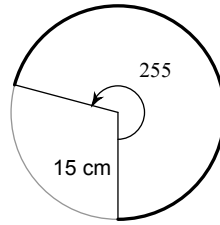
$$\frac{15\pi}{2} \text{ km}$$

167)



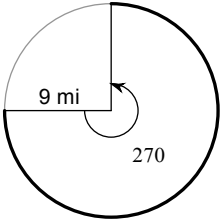
$$\frac{17\pi}{2} \text{ km}$$

168)



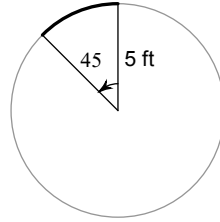
$$\frac{85\pi}{4} \text{ cm}$$

169)



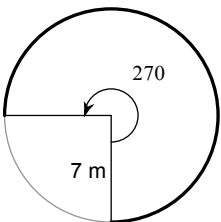
$$\frac{27\pi}{2} \text{ mi}$$

170)



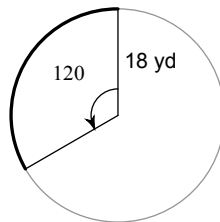
$$\frac{5\pi}{4} \text{ ft}$$

171)



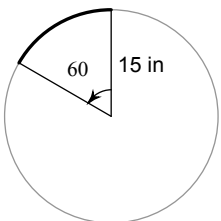
$$\frac{21\pi}{2} \text{ m}$$

172)



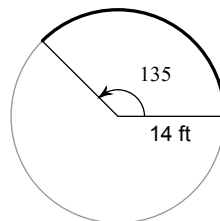
$$12\pi \text{ yd}$$

173)



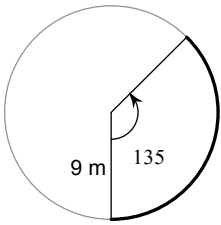
$$5\pi \text{ in}$$

174)



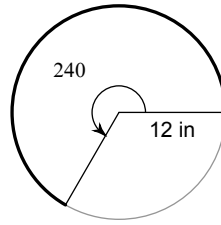
$$\frac{21\pi}{2} \text{ ft}$$

175)



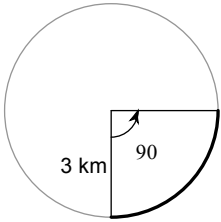
$$\frac{27\pi}{4} \text{ m}$$

176)



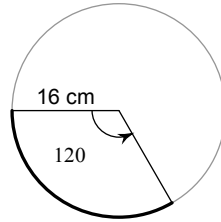
$$16\pi \text{ in}$$

177)



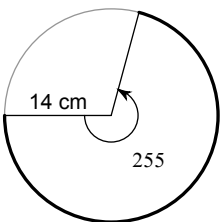
$$\frac{3\pi}{2} \text{ km}$$

178)



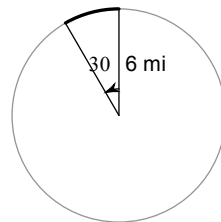
$$\frac{32\pi}{3} \text{ cm}$$

179)



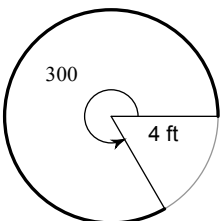
$$\frac{119\pi}{6} \text{ cm}$$

180)



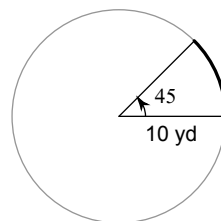
$$\pi \text{ mi}$$

181)



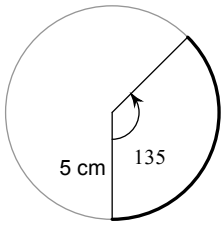
$$\frac{20\pi}{3} \text{ ft}$$

182)



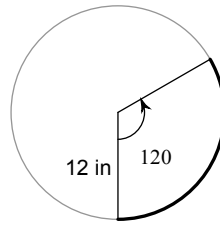
$$\frac{5\pi}{2} \text{ yd}$$

183)



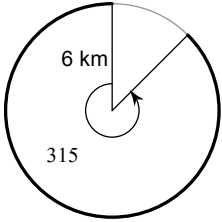
$$\frac{15\pi}{4} \text{ cm}$$

184)



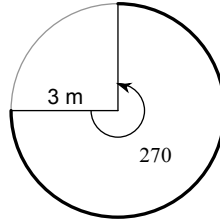
$$8\pi \text{ in}$$

185)



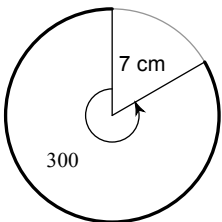
$$\frac{21\pi}{2} \text{ km}$$

186)



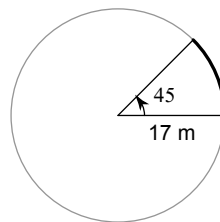
$$\frac{9\pi}{2} \text{ m}$$

187)



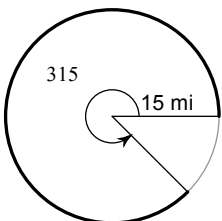
$$\frac{35\pi}{3} \text{ cm}$$

188)



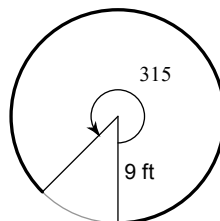
$$\frac{17\pi}{4} \text{ m}$$

189)



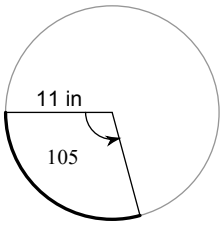
$$\frac{105\pi}{4} \text{ mi}$$

190)



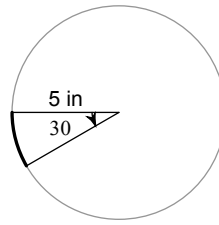
$$\frac{63\pi}{4} \text{ ft}$$

191)



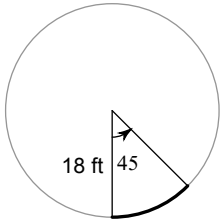
$$\frac{77\pi}{12} \text{ in}$$

192)



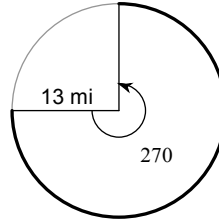
$$\frac{5\pi}{6} \text{ in}$$

193)



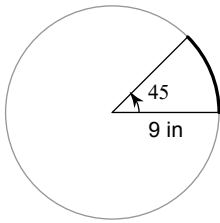
$$\frac{9\pi}{2} \text{ ft}$$

194)



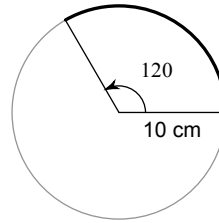
$$\frac{39\pi}{2} \text{ mi}$$

195)



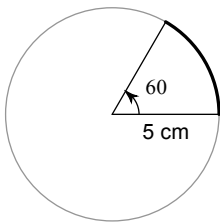
$$\frac{9\pi}{4} \text{ in}$$

196)



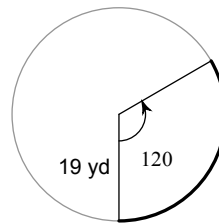
$$\frac{20\pi}{3} \text{ cm}$$

197)



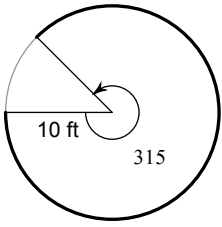
$$\frac{5\pi}{3} \text{ cm}$$

198)



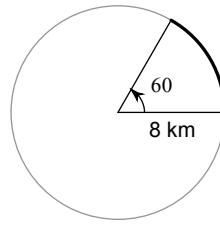
$$\frac{38\pi}{3} \text{ yd}$$

199)



$$\frac{35\pi}{2} \text{ ft}$$

200)



$$\frac{8\pi}{3} \text{ km}$$