

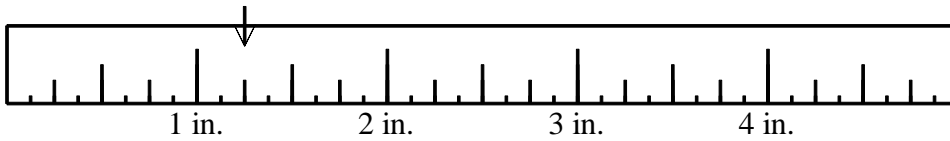
5th Grade Math
Study Guide Measurement

Name: _____

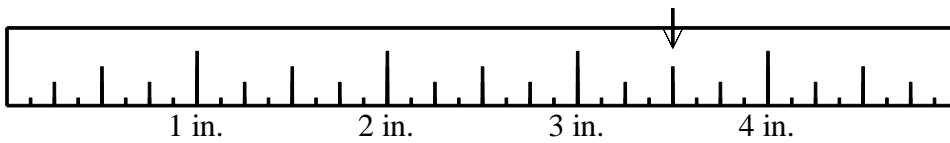
Date: _____

Name which value the arrow is pointing to on the ruler.

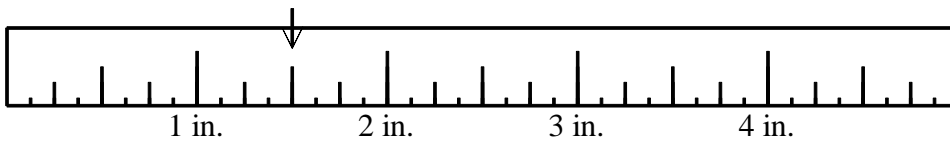
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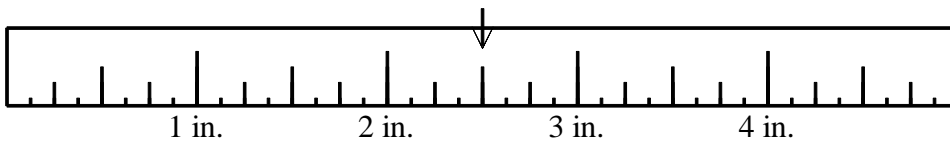
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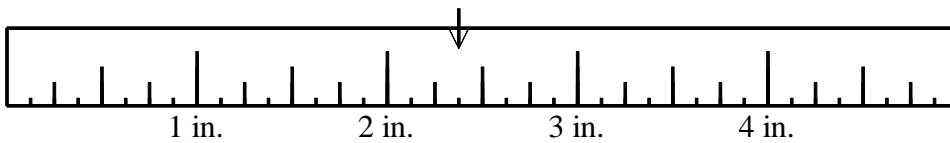
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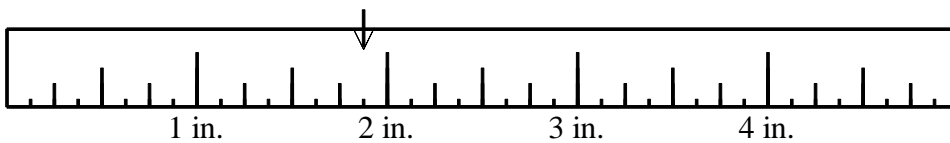
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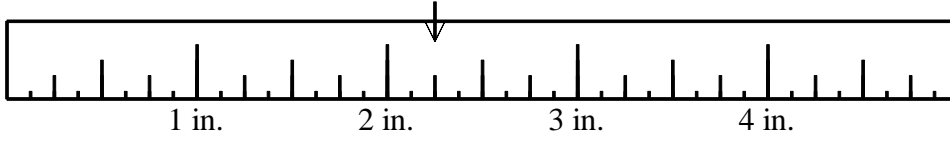
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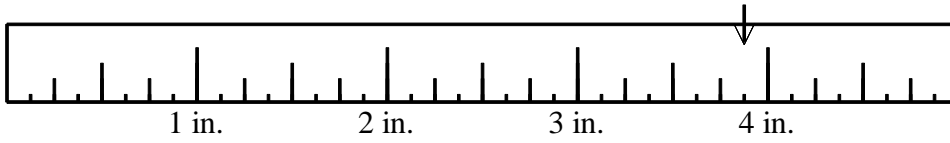
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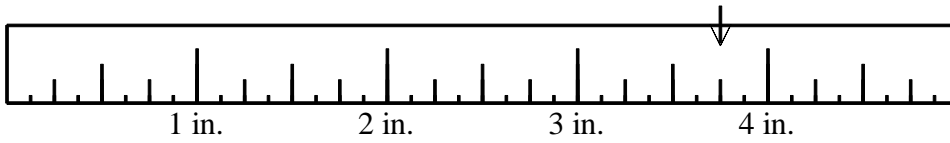
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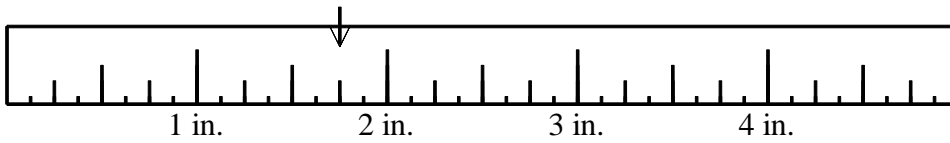
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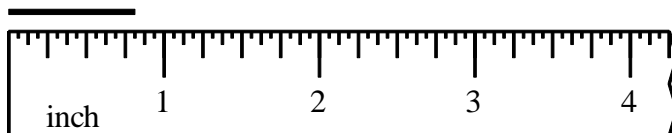


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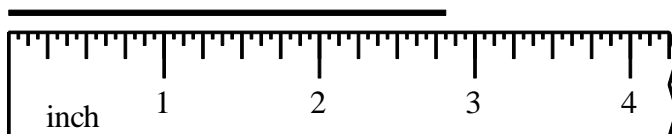


Name the length of each segment.

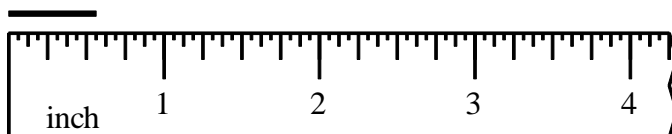
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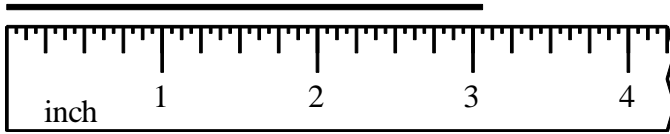
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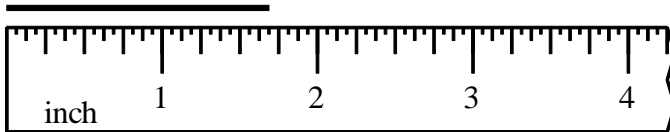
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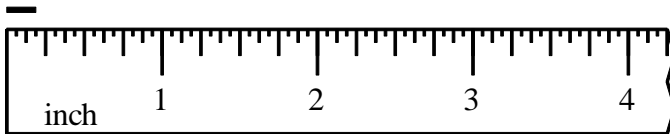
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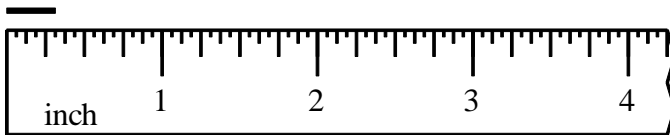
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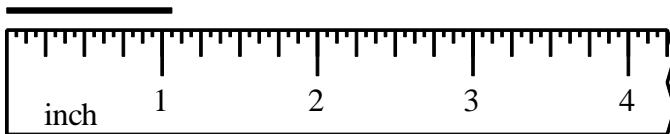
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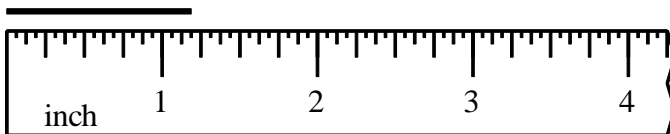
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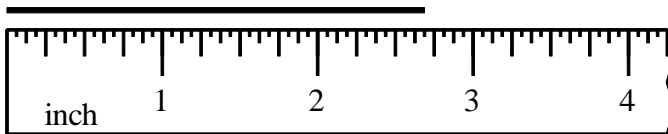
18.



19.



20.



Convert.

21. 7 feet = ___ inches

23. 6 feet = ___ inches

22. 5 feet = ___ inches

24. 9 feet = ___ inches

25. 3 feet = ___ inches

40. 18 feet = ___ yards

26. 2 feet = ___ inches

41. 8 yards = ___ inches

27. 4 feet = ___ inches

42. 3 yards = ___ inches

28. 8 feet = ___ inches

43. 4 yards = ___ inches

29. 7 feet = ___ inches

44. 5 yards = ___ inches

30. 5 feet = ___ inches

45. 2 yards = ___ inches

31. 15 feet = ___ yards

46. 6 yards = ___ inches

32. 30 feet = ___ yards

47. 9 yards = ___ inches

33. 18 feet = ___ yards

48. 12 yards = ___ inches

34. 6 feet = ___ yards

49. 10 yards = ___ inches

35. 9 feet = ___ yards

50. 7 yards = ___ inches

36. 12 feet = ___ yards

51. 10 yards = ___ feet

37. 27 feet = ___ yards

52. 3 yards = ___ feet

38. 21 feet = ___ yards

53. 4 yards = ___ feet

39. 24 feet = ___ yards

54. 7 yards = ___ feet

55. 12 yards = ___ feet

58. 11 yards = ___ feet

56. 2 yards = ___ feet

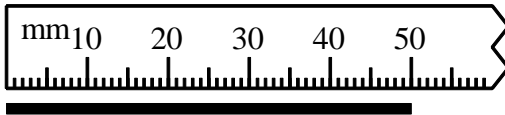
59. 5 yards = ___ feet

57. 9 yards = ___ feet

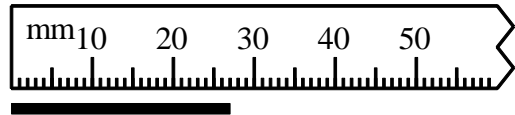
60. 8 yards = ___ feet

Name the length of each segment.

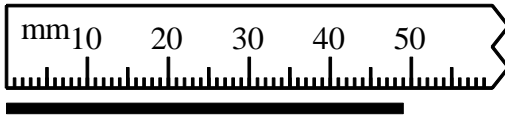
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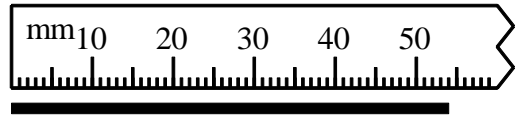
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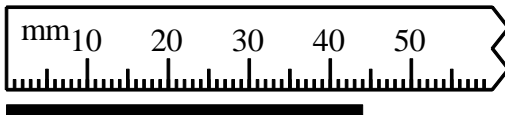
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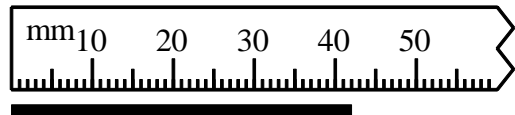
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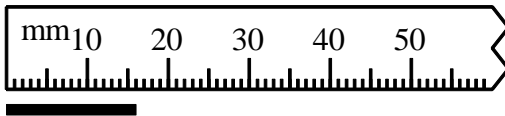
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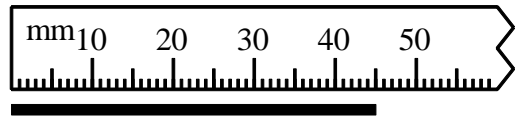
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64.



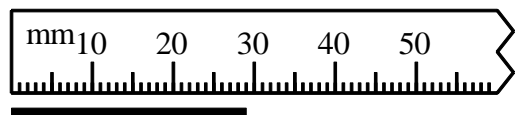
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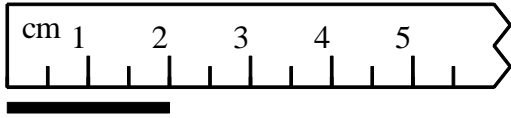
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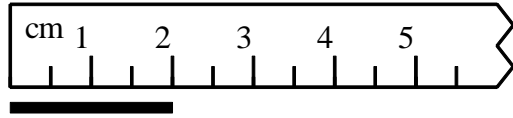
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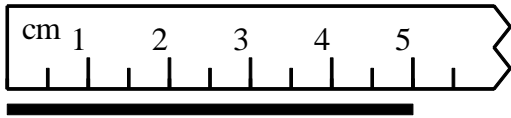
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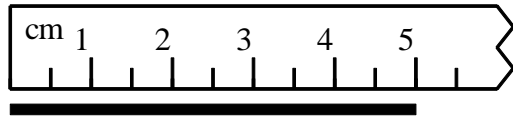
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72.



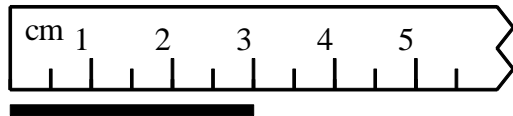
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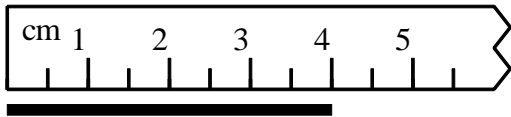
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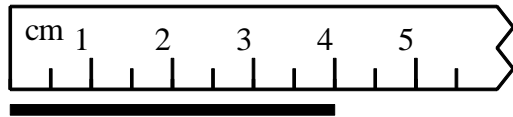
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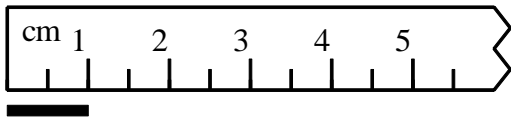
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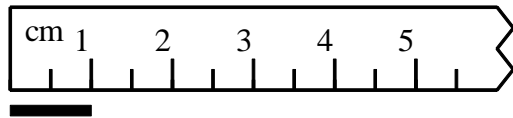
79.



75.



80.



Convert.

81. 3,300 centimeters = ___ meters

85. 700 centimeters = ___ meters

82. 5,100 centimeters = ___ meters

86. 4,800 centimeters = ___ meters

83. 4,300 centimeters = ___ meters

87. 6,500 centimeters = ___ meters

84. 7,600 centimeters = ___ meters

88. 2,300 centimeters = ___ meters

89. 4,700 centimeters = ___ meters

100. 2 kilometers = ___ meters

90. 2,100 centimeters = ___ meters

101. 4 tons to pounds.

91. 8 kilometers = ___ meters

102. 6 tons to pounds.

92. 9 kilometers = ___ meters

103. 9 tons to pounds.

93. 4 kilometers = ___ meters

104. 8 tons to pounds.

94. 5 kilometers = ___ meters

105. 12 tons to pounds.

95. 7 kilometers = ___ meters

106. 7 tons to pounds.

96. 6 kilometers = ___ meters

107. 3 tons to pounds.

97. 10 kilometers = ___ meters

108. 5 tons to pounds.

98. 11 kilometers = ___ meters

109. 11 tons to pounds.

99. 12 kilometers = ___ meters

110. 2 tons to pounds.

111. A puppy weighs about 7 pounds. How many ounces are in seven pounds?

112. An orca weighs about 5 tons. How many pounds are in five tons?

113. An elephant weighs about 7 tons. How many pounds are in seven tons?

114. A package weighs about 6 pounds. How many ounces are in six pounds?

115. A truck weighs about 9 tons. How many pounds are in nine tons?
116. A suitcase weighs about 8 pounds. How many ounces are in eight pounds?
117. An orca weighs about 8 tons. How many pounds are in eight tons?
118. A box weighs about 4 pounds. How many ounces are in four pounds?
119. A blue whale weighs about 4 tons. How many pounds are in four tons?
120. A book weighs about 6 pounds. How many ounces are in six pounds?
121. 48 ounces to pounds.
122. 160 ounces to pounds.
123. 192 ounces to pounds.
124. 144 ounces to pounds.
125. 128 ounces to pounds.
126. 112 ounces to pounds.
127. 64 ounces to pounds.
128. 176 ounces to pounds.
129. 96 ounces to pounds.
130. 80 ounces to pounds.
131. A truck weighs about 4 tons. How many pounds are in four tons?
132. An elephant weighs about 7 tons. How many pounds are in seven tons?
133. A hippo weighs about 6 tons. How many pounds are in six tons?
134. A baby blue whale weighs about 3 tons. How many pounds are in three tons?
135. An orca weighs about 5 tons. How many pounds are in five tons?

136. A hippo weighs about 8 tons. How many pounds are in eight tons?

137. An elephant weighs about 2 tons. How many pounds are in two tons?

138. A baby blue whale weighs about 9 tons. How many pounds are in nine tons?

139. A truck weighs about 4 tons. How many pounds are in four tons?

140. An orca weighs about 7 tons. How many pounds are in seven tons?

141. 7 kilograms = ___ grams

151. 9,000 milligrams = ___ grams

142. 9 kilograms = ___ grams

152. 4,000 milligrams = ___ grams

143. 10 kilograms = ___ grams

153. 7,000 milligrams = ___ grams

144. 3 kilograms = ___ grams

154. 2,000 milligrams = ___ grams

145. 4 kilograms = ___ grams

155. 14,000 milligrams = ___ grams

146. 12 kilograms = ___ grams

156. 3,000 milligrams = ___ grams

147. 11 kilograms = ___ grams

157. 11,000 milligrams = ___ grams

148. 2 kilograms = ___ grams

158. 10,000 milligrams = ___ grams

149. 6 kilograms = ___ grams

159. 6,000 milligrams = ___ grams

150. 5 kilograms = ___ grams

160. 15,000 milligrams = ___ grams

161. 18,000 grams = ___ kilograms

162. 49,000 grams = ___ kilograms

163. 98,000 grams = ___ kilograms

164. 66,000 grams = ___ kilograms

165. 20,000 grams = ___ kilograms

166. 5,000 grams = ___ kilograms

167. 31,000 grams = ___ kilograms

168. 46,000 grams = ___ kilograms

169. 77,000 grams = ___ kilograms

170. 36,000 grams = ___ kilograms

171. 325 grams = ___ milligrams

172. 2,950 grams = ___ milligrams

173. 1,484 grams = ___ milligrams

174. 770 grams = ___ milligrams

175. 1,992 grams = ___ milligrams

176. 566 grams = ___ milligrams

177. 1,948 grams = ___ milligrams

178. 1,270 grams = ___ milligrams

179. 305 grams = ___ milligrams

180. 2,103 grams = ___ milligrams

181. 36 quarts to gallons.

182. 12 quarts to gallons.

183. 5 quarts to pints.

184. 28 quarts to gallons.

185. 3 quarts to pints.

186. 9 quarts to pints.

187. 7 quarts to pints.

188. 20 quarts to gallons.

189. 36 quarts to gallons.

190. 12 quarts to gallons.

191. 26 cups to quarts.

192. 17 pints to gallons.

193. 16 pints to gallons.

194. 22 cups to quarts.

195. 12 cups to quarts.

196. 19 pints to gallons.

197. 11 pints to gallons.

198. 18 cups to quarts.

199. 21 cups to quarts.

200. 14 pints to gallons.

201. 4,450,000 milliliters = ___ liters

202. 6,830 milliliters = ___ liters

203. 904,000 milliliters = ___ liters

204. 30,200 milliliters = ___ liters

205. 64,700 milliliters = ___ liters

206. 4,580 milliliters = ___ liters

207. 564,000 milliliters = ___ liters

208. 6,720,000 milliliters = ___ liters

209. 2,730 milliliters = ___ liters

210. 9,440,000 milliliters = ___ liters

211. 32 liters = ___ milliliters

212. 30 liters = ___ milliliters

213. 50 liters = ___ milliliters

214. 34 liters = ___ milliliters

215. 18 liters = ___ milliliters

216. 39 liters = ___ milliliters

217. 26 liters = ___ milliliters

218. 43 liters = ___ milliliters

219. 46 liters = ___ milliliters

220. 16 liters = ___ milliliters

226. How many liters are in 8 kiloliters?

221. How many liters are in 4 kiloliters?

227. How many liters are in 11 kiloliters?

222. How many liters are in 7 kiloliters?

228. How many liters are in 5 kiloliters?

223. How many liters are in 9 kiloliters?

229. How many liters are in 2 kiloliters?

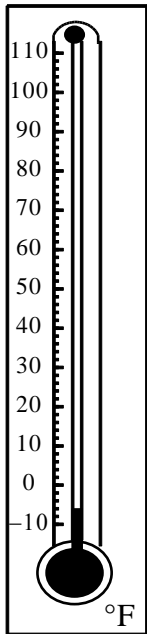
224. How many liters are in 3 kiloliters?

230. How many liters are in 10 kiloliters?

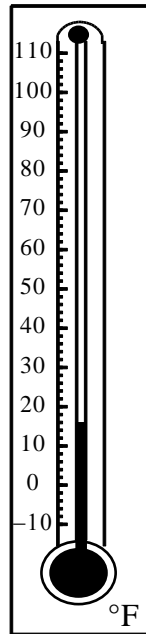
225. How many liters are in 12 kiloliters?

Find the temperature.

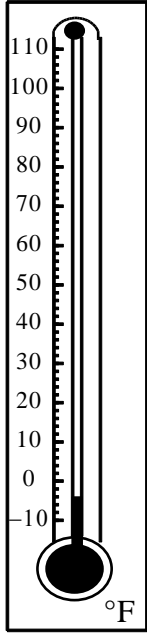
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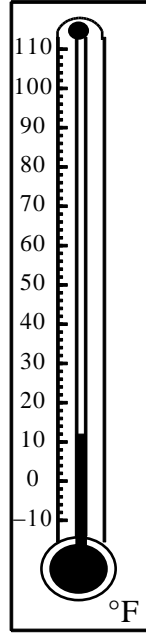
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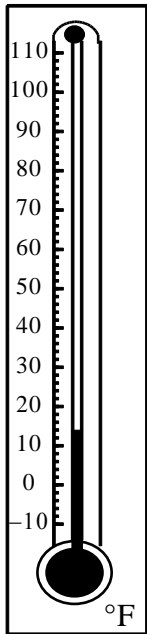
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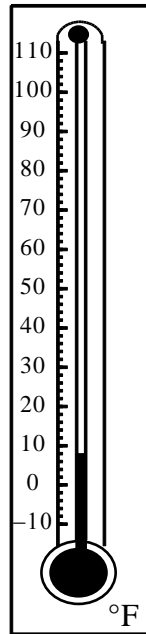
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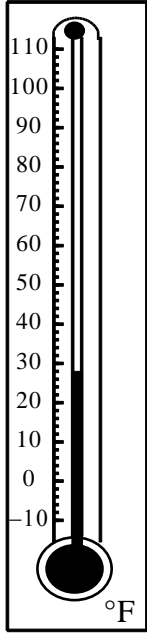
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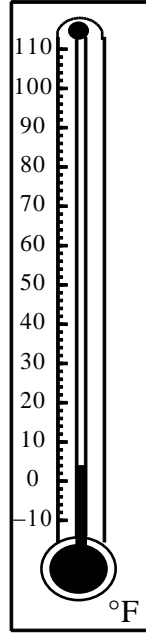
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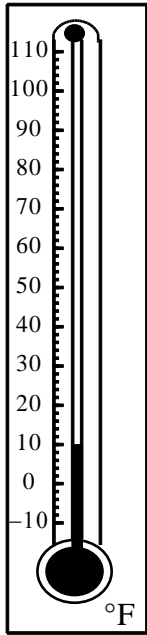
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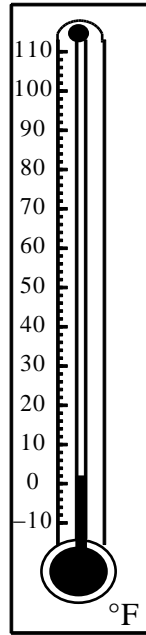
239.



238.



240.



Convert.

241. 12 hours = _____ minutes

242. 840 minutes = _____ hours

243. 900 minutes = _____seconds

244. 90 months = _____years

245. 9 years 3 months = _____ months

246. 5 hours = _____seconds

247. $9\frac{1}{2}$ days = _____ hours

248. 324 hours = _____ days

249. 7 min. 15 sec = _____seconds

250. 500 seconds = _____min. _____sec

Find the elapsed time.

251. from 7:51 pm to 7:03 am

252. from 11:14 am to 6:20 pm

253. from 9:31 pm to 3:22 am

254. from 6:23 pm to 5:56 am

255. from 8:07 am to 1:51 pm

256. from 7:22 pm to 11:32 am

257. from 8:03 am to 8:00 pm

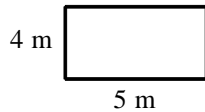
258. from 11:00 am to 7:34 pm

259. from 11:56 am to 5:20 pm

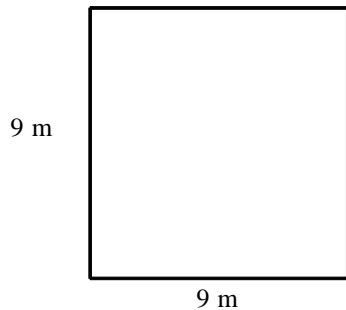
260. from 10:36 pm to 1:28 am

Find the Perimeter.

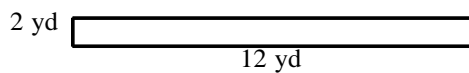
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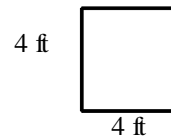
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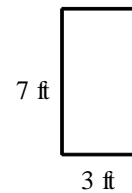
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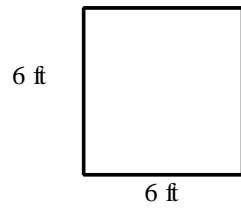
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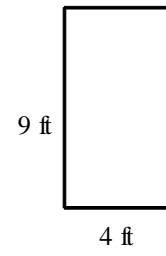
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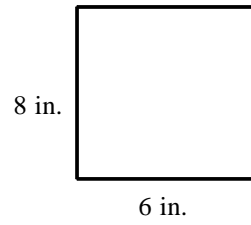
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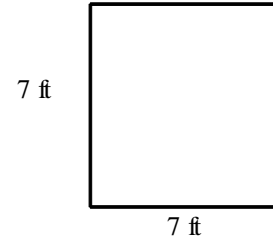
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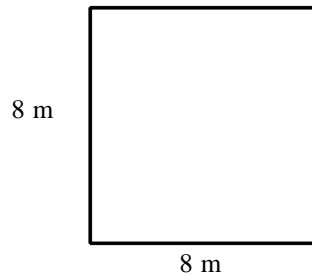
267.



270.

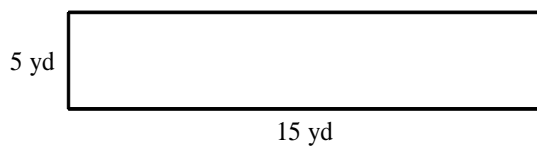


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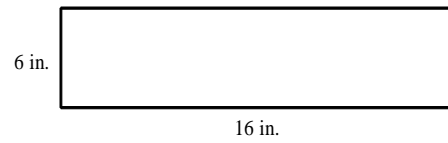


Find the Area.

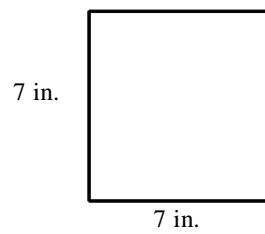
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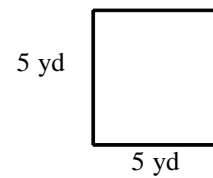
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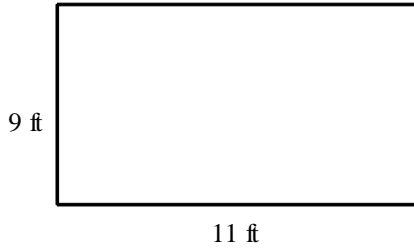
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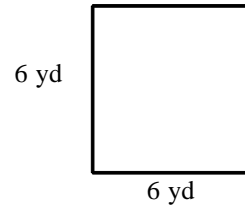
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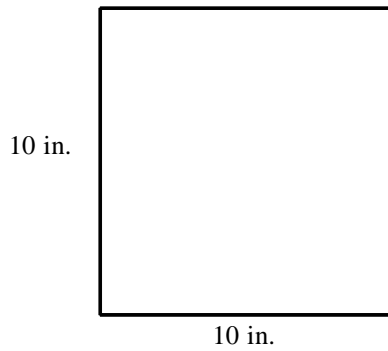
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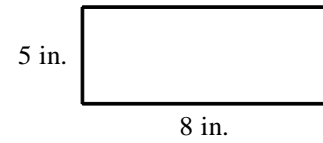
278.



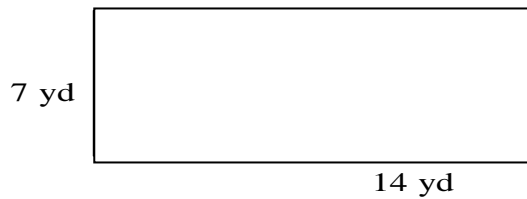
276.



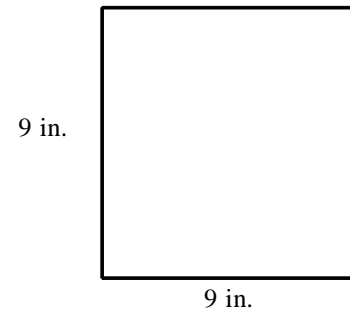
279.



277.



280.



Solve.

281. Tim ran the marathon in 4 hours 13 min. Neil ran it in 310 min. Who ran the marathon in less time?

282. If David jogs once around the $2\frac{1}{2}$ mile perimeter of the lake 6 days a week and twice on Sundays, how many miles does David jog in one week?

283. The carnival began at 11:15 am and ended at 10:45 pm. How long did it last?

284. Last week the average temperature was 32°F . This week the temperature each day was 25°C , 23°C , 20°C , 22°C , 18°C , and 17°C . How many degrees did the average temperature decrease?

Answer Key

[1] $1\frac{1}{4}$ in.

[2] $3\frac{1}{2}$ in.

[3] $1\frac{1}{2}$ in.

[4] $2\frac{1}{2}$ in.

[5] $2\frac{3}{8}$ in.

[6] $1\frac{7}{8}$ in.

[7] $2\frac{1}{4}$ in.

[8] $3\frac{7}{8}$ in.

[9] $3\frac{3}{4}$ in.

[10] $1\frac{3}{4}$ in.

[11] $\frac{13}{16}$ in.

[12] $2\frac{13}{16}$ in.

[13] $\frac{9}{16}$ in.

[14] $3\frac{1}{16}$ in.

[15] $1\frac{11}{16}$ in.

[16] $\frac{3}{16}$ in.

[17] $\frac{5}{16}$ in.

[18] $1\frac{1}{16}$ in.

[19] $1\frac{3}{16}$ in.

[20] $2\frac{11}{16}$ in.

[21] 84 in

[22] 60 in

[23] 72 in

[24] 108 in

[25] 36 in

[26] 24 in

[27] 48 in

[28] 96 in

[29] 84 in

[30] 60 in

[31] 5 yds

[32] 10 yds

[33] 6 yds

[34] 2 yds

[35] 3 yds

[36] 4 yds

[37] 9 yds

[38] 7 yds

[39] 8 yds

[40] 6 yds

[41] 288

[42] 108

[43] 144

[44] 180

[45] 72

[46] 216

[47] 324

[48] 432

[49] 360

[50] 252

[51] 30

[52] 9

[53] 12

[54] 21

[55] 36

[56] 6

[57] 27	[80] 1 cm	[103] 18,000 lbs
[58] 33	[81] 33	[104] 16,000 lbs
[59] 15	[82] 51	[105] 24,000 lbs
[60] 24	[83] 43	[106] 14,000 lbs
[61] 50 mm	[84] 76	[107] 6,000 lbs
[62] 49 mm	[85] 7	[108] 10,000 lbs
[63] 44 mm	[86] 48	[109] 22,000 lbs
[64] 16 mm	[87] 65	[110] 4,000 lbs
[65] 51 mm	[88] 23	[111] 112 oz
[66] 27 mm	[89] 47	[112] 10,000 lbs
[67] 54 mm	[90] 21	[113] 14,000 lbs
[68] 42 mm	[91] 8,000	[114] 96 oz
[69] 45 mm	[92] 9,000	[115] 18,000 lbs
[70] 29 mm	[93] 4,000	[116] 128 oz
[71] 2 cm	[94] 5,000	[117] 16,000 lbs
[72] 5 cm	[95] 7,000	[118] 64 oz
[73] 3 cm	[96] 6,000	[119] 8,000 lbs
[74] 4 cm	[97] 10,000	[120] 96 oz
[75] 1 cm	[98] 11,000	[121] 3 lb
[76] 2 cm	[99] 12,000	[122] 10 lb
[77] 5 cm	[100] 2,000	[123] 12 lb
[78] 3 cm	[101] 8,000 lbs	[124] 9 lb
[79] 4 cm	[102] 12,000 lbs	[125] 8 lb

[126] 7 lb	[149] 6,000	[172] 2,950,000
[127] 4 lb	[150] 5,000	[173] 1,484,000
[128] 11 lb	[151] 9	[174] 770,000
[129] 6 lb	[152] 4	[175] 1,992,000
[130] 5 lb	[153] 7	[176] 566,000
[131] 8,000 lbs	[154] 2	[177] 1,948,000
[132] 14,000 lbs	[155] 14	[178] 1,270,000
[133] 12,000 lbs	[156] 3	[179] 305,000
[134] 6,000 lbs	[157] 11	[180] 2,103,000
[135] 10,000 lbs	[158] 10	[181] 9 gal
[136] 16,000 lbs	[159] 6	[182] 3 gal
[137] 4,000 lbs	[160] 15	[183] 10 pt
[138] 18,000 lbs	[161] 18	[184] 7 gal
[139] 8,000 lbs	[162] 49	[185] 6 pt
[140] 14,000 lbs	[163] 98	[186] 18 pt
[141] 7,000	[164] 66	[187] 14 pt
[142] 9,000	[165] 20	[188] 5 gal
[143] 10,000	[166] 5	[189] 9 gal
[144] 3,000	[167] 31	[190] 3 gal
[145] 4,000	[168] 46	[191] $6\frac{1}{2}$ qt
[146] 12,000	[169] 77	[192] $2\frac{1}{8}$ gal
[147] 11,000	[170] 36	
[148] 2,000	[171] 325,000	[193] 2 gal

[194] $5\frac{1}{2}$ qt	[214] 34,000	[237] 28°F
[195] 3 qt	[215] 18,000	[238] 10°F
[196] $2\frac{3}{8}$ gal	[216] 39,000	[239] 4°F
[197] $1\frac{3}{8}$ gal	[217] 26,000	[240] 2°F
[198] $4\frac{1}{2}$ qt	[218] 43,000	[241] 720 minutes
[199] $5\frac{1}{4}$ qt	[219] 46,000	[242] 14 hours
[200] $1\frac{3}{4}$ gal	[220] 16,000	[243] 54,000 seconds
[201] 4,450 L	[221] 4,000 L	[244] $7\frac{1}{2}$ years
[202] 6.83 L	[222] 7,000 L	[245] 111 months
[203] 904 L	[223] 9,000 L	[246] 18,000 seconds
[204] 30.2 L	[224] 3,000 L	[247] 228 hours
[205] 64.7 L	[225] 12,000 L	[248] $9\frac{1}{2}$ days
[206] 4.58 L	[226] 8,000 L	[249] 435 seconds
[207] 564 L	[227] 11,000 L	[250] 8 min 20 seconds
[208] 6,720 L	[228] 5,000 L	[251] 11 hours 12 min.
[209] 2.73 L	[229] 2,000 L	[252] 7 hours 6 min.
[210] 9,440 L	[230] 10,000 L	[253] 5 hours 51 min
[211] 32,000	[231] -6°F	[254] 11 hours 33 minutes
[212] 30,000	[232] 16°F	[255] 5 hours 44 minutes
[213] 50,000	[233] -4°F	[256] 16 hours 10 minutes
	[234] 14°F	[257] 11 hours 57 minutes
	[235] 12°F	[258] 8 hours 34 minutes
	[236] 8°F	[259] 5 hours 24 minutes

[260] 2 hours 52 minutes

[261] 18 m

[262] 36 m

[263] 28 yd

[264] 16 ft

[265] 20 ft

[266] 24 ft

[267] 28 in

[268] 32 m

[269] 26 ft

[270] 28 ft

[271] 75 yd²

[272] 49 in²

[273] 96 in²

[274] 25 yd²

[275] 99 ft²

[276] 100 in²

[277] 98 yd²

[278] 36 yd²

[279] 40 in²

[280] 81 in²

[281] Tim runs it in 253 minutes.

[282] 20 miles

[283] 11 hours 30 minutes

[284] 11°