

3.4 Solve Geometric Applications: Triangles, Rectangles and the Pythagorean Theorem

211. 56 degrees

213. 44 degrees

215. 11 feet

217. 8 feet

219. 0.75 sq. ft.

221. 23 inches

223. 57

225. 67.5

227. 13 ft., 12 ft., 14 ft.

229. 3 ft., 6 ft., 8 ft.

231. 45, 45, 90

233. 30, 60, 90

235. 15

237. 25

239. 8

241. 12

243. 10.2

245. 9.8

247. 5 feet

249. 14.1 feet

251. 260 feet

253. 58 feet

255. 23 meters

257. 26 inches

259. 24

261. 4.9

263. 16 in., 7 in.

265. 17 m, 12 m

267. 13.5 m length, 12.8 m width

269. 50 ft., 25 ft.

271. 7 m width, 11 m length

273. 160 yd., 120 yd.

275. 85 ft., 40 ft.

277. 24 feet

279. area; answers will vary

281. (a) Answers will vary. (b) Answers will vary. (c) Answers will vary. (d) The areas are the same. (e) The 2x8 rectangle has a larger perimeter than the 4x4 square.