Workout 1

141._____ The movies in the *Revengers* series have been coming out every three years. The sum of the years in which the first six movies came out is 12,057. In what year is the seventh movie expected to come out?

142._____% Claire purchased 36 pounds of cashews for $56.25. She divides the cashews into smaller bags, each containing $\frac{3}{8}$ pound. If she sells each small bag of cashews for 79 cents, what percent of the money that she collects will be profit? Express your answer to the nearest tenth.

143._____minutes Jane is traveling on an interstate highway where signs that are numbered consecutively starting with 1 are posted at every mile. If Jane is traveling at a speed of 72 mi/h, how many minutes will it take her to travel from mile marker 7 to mile marker 29? Express your answer as a decimal to the nearest tenth.

144._____Jersey cows One-third of Farmer Gene's cows are Guernseys, two-fifths are Holsteins and the rest are Jerseys. How many Jersey cows are in his herd of 90 cows?

145._____ What is 77% of 90? Express your answer as a decimal to the nearest tenth.

146._____feet For his dog, Ramon builds a rectangular pen with dimensions 10 feet by *x* feet. Heidi builds a circular pen of radius 5 feet for her dog. If the two pens have the same area, what is the value of *x*? Express your answer as a decimal to the nearest tenth.

147._____sixth graders A MATHCOUNTS club has a total of 27 sixth- and seventh-grade members. If there are 25% more seventh graders than sixth graders, how many sixth graders are in the club?

148._____gallons Ana's doctor advises her to drink eight 8-ounce glasses of water each day. If a gallon contains 128 ounces, how many gallons of water should Ana drink in four weeks?

149._____hours How many hours are in 210 minutes? Express your answer as a decimal to the nearest tenth.

150._____ What is the sum of the unique prime factors of 9991?