Use measures expressed as rates (e.g., speed, density) and measures expressed as products (e.g., person-days) to solve problems; check the units of the solutions; and use dimensional analysis to check the reasonableness of the answer. 7MG1.3

100. Sixty miles per hour is the same rate as which of the following?

A 1 mile per minute

B 1 mile per second

C 6 miles per minute

D 360 miles per second

101. Beverly ran six miles at the speed of four miles per hour. How long did it take her to run that distance?

A $\frac{2}{3}$ hr

B $1\frac{1}{2}$ hrs

C 4 hrs

D 6 hrs

102. Marcus can type about 42 words per minute. If he types at this rate for 30 minutes without stopping, about how many words will he type?

A 1260

B 2100

C 2520

D 4200

103. A landscaper estimates that landscaping a new park will take 1 person 48 hours. If 4 people work on the job and they each work 6-hour days, how many days are needed to complete the job?

A 2

B 4

C 6

D 8