

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