1.3 Multiplying and Dividing Whole Numbers

#67. Wages A cook worked 12 hours at $11 per hour. How much did she earn?
She earned $12 \times 11 = 132$

#68. CHESSBOARDS A chess board consists of 8 rows, with 8 squares in each rows. How many squares are on a chessboard?
$8 \times 8 = 64$ squares

#70 Renting Apartment. Mia owns an apartment building with 18 units. Each unit generates a monthly income of $450. Find her total monthly income.
her total monthly income = $18 \times 450 = 8100$

#74. Room Capacity A college lecture hall has 17 rows of 33 seats. A sign on the wall reads: Occupancy by more than 570 persons is prohibited. If the seats are filled and there is one instructor, is the college breaking the rule?
Number of seats = $17 \times 33 = 561$ seats + 1 instructor < 570
The college is not breaking the rule.

#76. Changing units. There are 12 inches in 1 foot. How many inches in 80 feet.
In 80 feet, there are $80 \times 12 = 960$ inches

#80. Lift Systems If the bus shown below weighs 58,000 pounds, how much weight is on each jack?
Weight on each jack = $\frac{58000}{4} = 14500$ lbs

#82. RUNNING Brian runs 7 miles each day. In how many days will Brian run 371 miles?
Number of days = $\frac{371}{7} = 53$ days

#88. Area of Wyoming The State of Wyoming is approximately rectangular-shaped with dimensions 360 miles long and 270 miles wide. Find its perimeter and its area.
Perimeter = $2L + 2W = 2 \times 360 + 2 \times 270 = 720 + 540 = 1260$ miles.
Area = $L \cdot W = 360 \times 270 = 97200$ miles$^2$