Chuck earns $1147.50 selling $7650 worth of ski passes. **What is the commission rate?**

**STEP 1.** Identify & record the “unknown” quantity being sought, and assign a variable to represent it:

commission rate = r %

**STEP 2.** Identify & record the known (given) quantities:

amount of commission: $1147.50

amount of sale: $7650 (worth of ski passes)

**STEP 3.** Write an expression/equation relating the unknown & known info:

amt. of commission = commission rate × price of goods sold

i.e., $1147.50 = r% × $7650

**STEP 4.** Solve/simplify equation (by dividing both sides by $7650)

\[
\frac{1147.50}{7650} = \frac{r\% × 7650}{7650}
\]

\[
0.15 = r\%
\]

Convert decimal form to % (move decimal point 2 places to the right)...

**Answer:** Chuck’s **commission rate** was **15%**.