### 6.2 Key Concepts 2 Equation of a Partial Variation Worked Example

Example: A golf club has dues of $\$ 50$ per month, plus $\$ 30$ per game. Model the monthly cost of belonging to the club with an equation.

Solution: The constant part is $\$ 50$ and the variable part is $\$ 30$ per game. The equation is $C=50+30 \mathrm{~g}$.

## Practice:

1. A hot air balloon burns 200 L of fuel while inflating, plus 40 L per hour of flight. Model the fuel burned on a flight of $h$ hours with an equation.
2. A bank charges $\$ 25$ to set up an investment account, plus $\$ 20$ per year in administration charges. Model the cost of maintaining the account for $t$ years with an equation.

Answers: 1. $F=200+40$ h. 2. $C=25+20 t$.

