

GYM MEMBERSHIP A gym charges \$35 per month after an initial membership fee. A member has paid a total of \$250 after 6 months. Write an equation that gives the total cost of a gym membership as a function of the length of membership (in months). Find the total cost of membership after 10 months.

BMX RACING A BMX race track charges a membership fee and an entry fee per race. One racer paid a total of \$76 after 3 races. Another racer paid a total of \$124 after 7 races.

- a. How much does the track membership cost?
- b. What is the entry fee per race?
- c. Write an equation that gives the total cost as a function of the number of races entered.

5K Special. The table below shows the cost of races on the Chicago Area Running Association Race Circuit.

Number of Races	5	8
Amount Paid	\$125	\$170

- (a) How much does each race cost?
- (b) What equation would model this situation?
- (c) How much would it cost you to run 100 races?