METHOD 2 Using a Table Another approach is to use a table showing the amount paid for various numbers of races.

STEP 1 Calculate the race entry fee.


The number of races increased by 3 , and the amount paid increased by $\$ 45$, so the race entry fee is $\$ 45 \div 3=\$ 15$.

STEP 2 Find the membership cost.


The membership cost is the cost with no races. Use the race entry fee and work backwards to fill in the table. The membership cost is $\$ 50$.

## PRACTICE

1. CALENDARS A company makes calendars from personal photos. You pay a delivery fee for each order plus a cost per calendar. The cost of 2 calendars plus delivery is $\$ 43$. The cost of 4 calendars plus delivery is $\$ 81$. What is the delivery fee? What is the cost per calendar? Solve this problem using two different methods.
2. BOOKSHELVES A furniture maker offers bookshelves that have the same width and depth but that differ in height and price, as shown in the table. Find the cost of a bookshelf that is 72 inches high. Solve this problem using two different methods.

| Height <br> (inches) | Price <br> (dollars) |
| :---: | :---: |
| 36 | 56.54 |
| 48 | 77.42 |
| 60 | 98.30 |

3. WHAT IF? In Exercise 2, suppose the price of the 60 inch bookshelf was $\$ 99.30$. Can you still solve the problem? Explain.
4. CONCERT TICKETS All tickets for a concert are the same price. The ticket agency adds a fixed fee to every order. A person who orders 5 tickets pays $\$ 93$. A person who orders 3 tickets pays $\$ 57$. How much will 4 tickets cost? Solve this problem using two different methods.
5. ERROR ANALYSIS A student solved the problem in Exercise 4 as shown below. Describe and correct the error.

$$
\begin{aligned}
& \text { Let } p=\text { price paid for } 4 \text { tickets } \\
& \qquad \begin{aligned}
\frac{57}{3} & =\frac{p}{4} \\
228 & =3 p \\
76 & =p
\end{aligned}
\end{aligned}
$$

