

# Properties of Equality

**PS 1-14**

1. Amanda earns \$4 an hour baby-sitting, and she made \$36 last weekend. If  $h$  is the number of hours she baby-sat, the equation  $4h = 36$  represents this situation. How can you get the variable alone?
- 

2. In Middle School A there were 37 more students in 2002 than in 2000. There were 489 students in the school in 2000. If  $b$  represents the number of students in 2002, the equation  $b - 489 = 37$  represents this situation. How can you get the variable alone?
- 

3. Dave and his three friends picked peaches for their mothers today. They each went home with 22 lb of peaches. If  $x$  is the number of peaches they picked altogether, the equation  $\frac{x}{4} = 22$  represents this situation. How can you get the variable alone?
- 

4. Jennifer's sister is 3 years older than Jennifer. This year Jennifer's sister is 21. If  $y$  is Jennifer's age, then  $y + 3 = 21$  represents this situation. How can you get the variable alone?
- 

5. A total of \$108 is received for booklets that are sold for \$2 each. If  $k$  is the number of booklets sold, the equation  $2k = 108$  represents this situation. How can you get the variable alone?
- 

6. **Writing in Math** You know that  $4 \times 9 = 36$ . Does  $4 \times 9 - 12 = 36 - 12$ ? Why or why not?
- 
- 
- 
- 
-