

## Section 10.3 Extra Practice

1. Draw a model of each equation. Then, solve the equation.

a)  $5 + \frac{r}{-2} = 1$

b)  $7 = \frac{q}{3} - 2$

c)  $\frac{v}{4} - 6 = 4$

d)  $-1 = 4 + \frac{z}{5}$

2. Solve each equation. Check your answer.

a)  $-3 = \frac{n}{7} - 7$

b)  $2 + \frac{a}{-8} = 4$

c)  $-4 + \frac{x}{11} = -1$

d)  $5 = \frac{e}{-6} + 10$

3. Show whether  $x = -12$  is the solution to each equation.

a)  $\frac{x}{-3} + 6 = 2$

b)  $8 + \frac{x}{12} = 7$

c)  $0 = \frac{x}{4} - 3$

d)  $-10 = \frac{x}{-6} - 12$

4. Half of Xien's age added to 2 equals the age of her sister, Airah, who is 11. How old is Xien?

5. Alex is working on the equation  $4x - 5 = 7$ . The first thing he does is divide the whole equation by 4. He writes  $\frac{4x}{4} - \frac{5}{4} = \frac{7}{4}$ . He thinks he may have done something wrong. Has he? Justify your answer.