Write the word sentence as an equation.   *(Section 7.1)*
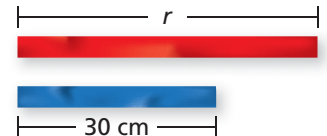
1. A number x decreased by 3 is 5.

2. A number a divided by 7 equals 14.

3. The product of 3 and a number b is 9.

4. 7 more than a number n is 20.

Solve the equation. Check your solution.   *(Section 7.2, Section 7.3, and Section 7.4)*

5. $4 + k = 14$

6. $\dfrac{5}{6} = s - \dfrac{1}{3}$

7. $10 = \dfrac{w}{5}$

8. $9p = 108$

9. $9x + 2 = 11$

10. $\dfrac{n}{2} - 4 = 6$

11. $\dfrac{y}{3} + 0.2 = 1.2$

12. $6j + 1.9 = 5.5$

13. RIBBON The length of the blue ribbon is two-thirds the length of the red ribbon. Write an equation you can use to find the length r of the red ribbon.   *(Section 7.1)*

14. BRIDGES The main span of the Sunshine State Skyway is 360 meters long. The Skyway is 30 meters shorter than the main span of the Dames Point Bridge. Write and solve an equation to find the length ℓ of the main span of the Dames Point Bridge.   *(Section 7.2)*

15. CAT A dog weighs 33 pounds. Its weight is 5 pounds more than twice the weight of a cat. Write and solve an equation to find the weight of the cat. *(Section 7.4)*

16. SHOPPING At a farmer's market, you buy 4 pounds of tomatoes and 2 pounds of sweet potatoes. You spend 80% of the money in your wallet. Write and solve an equation to find how much money is in your wallet before you pay. *(Section 7.3)*

Tomatoes $3.00/pound

Sweet Potatoes $2.00/pound