Chapter 8 Quiz

Solve each equation. Check your solution. Show your work here or on the back of the quiz.

1. $\frac{4}{5}s + 8 = 12$

1. _____

2. $8 = -\frac{2}{3}h$

2. _____

3. $22 - 12k = -14$

3. _____

4. $59 = 7j + 3$

4. _____

5. $9(p - 2) = 45$

5. _____

6. $-3(4 + m) = -36$

6. _____

Solve each problem by writing and solving an equation.

7. The perimeter of the front face of a prism is 88 feet. The side lengths of the front face are $2x$ feet, $(4x + 8)$ feet, $2x$ feet, and $(4x + 8)$ feet. What is the value of x?

7. _____

8. The difference between the record high and low temperatures in Daytona Beach, Florida, is 87°F. The record high temperature is 102°F. What is the record low temperature?

8. _____

9. Chanel is renting a digital video recorder from a cable supplier for a start-up fee of $45 plus $5 per month. She has a budget of $250. What is the maximum number of months she can rent the digital video recorder, and stay within her budget?

9. _____

10. Nannette installed a security system in her office for $150. The monthly monitoring fee is $30. So far, Nannette has spent $420 for her security system. For how many months has she had the service?

10. _____