

Algebra 1
Review Ch. 2

Quiz 2.7-2.8 today
Test Ch. 2 Fri.

2-1 Writing Equations

Translate each sentence into an equation.

9. The sum of five times a number x and three is the same as fifteen.

$$5x + 3 = 15$$

10. Four times the difference of b and six is equal to b squared.

$$4(b - 6) = b^2$$

Translate each equation into a sentence.

12. $3p + 8 = 20$ The sum of 3 times p

13. $h^2 - 5h + 6 = 0$ and 8 is < 20 .

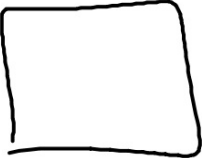
h squared minus 5 times h plus 6 = 0

15. **FENCING** Adrienne wants to create an outdoor rectangular kennel. The length will be three feet more than twice the width. Write and use an equation to find the length and the width of the kennel if Adrienne has 54 feet of fencing.

$$8 \times 19 \text{ ft}$$

$2x+3$
 $x+2x+3+x+2x+3 = 54$
 $6x+6=54$
 $\quad -6 \quad -6$

 $6x = 48$
 $\frac{6x}{6} = \frac{48}{6}$
 $x = 8$

x
 8

 $2x+3$
 $2 \cdot 8 + 3$
 $16 + 3 = 19$

24. **AGE** Max is four years younger than his sister Brenda. Max is 16 years old. Write and solve an equation to find Brenda's age.

27. $14 = -8 - 2k$

29. $\frac{r+4}{3} = 7$

36. **CONSECUTIVE INTEGERS** Find three consecutive integers with a sum of -39 .

35. **CONSECUTIVE INTEGERS** Find three consecutive odd integers with a sum of 63.

2-4 Solving Equations with the Variable on Each Side

Solve each equation. Check your solution.

37. $8m + 7 = 5m + 16$

41. $\frac{6r-7}{10} = \frac{r}{4}$

42. $3(p+4) = 33$

Write an equation and solve each problem.

- 45.** Find the sum of three consecutive odd integers if the sum of the first two integers is equal to twenty-four less than four times the third integer.

53. $\left| \frac{1}{3}d - 6 \right| = 15$