

Name: _____

Date: _____

Extra Practice (3.5 - 3.6)

Simplify each equation. (*lesson 3.5*)

1) $6p + 22 = 10$

2) $\frac{r}{3} - 4 = 2$

3) $-10 = -4 + \frac{n}{5}$

4) $7h + 20 = -8$

5) $16 = 8y - 40$

6) $2 = \frac{r}{3} - 16$

7) $1 + \frac{a}{-9} - 4 = 0$

8) $5p - 4p = 7$

9) $19 = -w + 4w - 26$

10) $-23 = y - 1 - 4y + 5$

Translate each sentence into an equation. Then find each number. (*lesson 3.6*)

11) Twenty more than twice a number is sixty-two.

12) Eight less than seven times a number is negative twenty-nine.

13) Twenty-six more than the product of a number and seventeen is negative forty-two.

14) Eight times a number plus six less than twice a number is thirty-four.

15) The difference between three times a number and eleven is ten.

16) Twelve less than the quotient of a number and eight is negative one.

Solve each problem by writing and solving an equation.

17) The water level of a creek has risen 4 inches above its flood stage. If it continues to rise steadily at 2 inches per hour, how long will it take for the creek to be 12 inches above its flood stage?

18) In one season, Kelly ran 18 races. This was four fewer races than twice the number of races Ana ran. How many races did Ana run.

19) Mary's sister is 7 years older than Mary. Their combined ages add up to 35. How old is Mary?

20) James has four more home runs than twice the number of home runs Jacob hit. Together they hit 10 home runs. How many home runs did James hit?