Lesson 3 Homework Practice

Writing Equations

Translate each sentence into an equation.

1. Eight less than 7.2 times a number is −29.6.

2. Twenty more than twice a number is 52.

3. The difference between one-third of a number and 11 is 10.

4. One increased by the difference between 18 and seven times a number is −9.

5. Eight times a number plus 6 less than twice the number is 34.

6. Twenty-six more than the product of a number and 17 is −42.

7. Twelve less than the quotient of a number and 8 is −1.

Solve each problem by writing and solving an equation.

8. Last summer, Gary trained 32 more dogs than Zina. Together they trained 126 dogs. How many dogs did Gary train?

9. Julius sold five times as many computers as Sam sold last year. In total, they sold 78 computers. How many computers did Julius sell?

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

11. André hit four more home runs than twice the number of home runs Larry hit. Together they hit 10 home runs. How many home runs did André hit?

12. The sixth grade has collected $116.75 for a local animal shelter. Their goal is to collect $500. They have 3 weeks left. How much money must they collect each week?

Math Accelerated • **Chapter 8** Equations and Inequalities