

Chapter 4 Section 2: Word Problems with One Unknown

Problems

Write an equation for each problem and solve for the unknown.

1. The sum of a number and 7 is 15.

3. The sum of a number and 8 is -9 .

5. A number increased by -16 is 9.

7. The difference of a number and -12 results in 45.

9. A number increase by 12 is 19.

11. The difference of a number and 5 results in 25.

13. The quotient of a number and -3 is 17.

15. Twice a number and 5 is equal to 33.

17. Twice a number and -9 is equal to 15.

19. Three times the sum of twice a number and 4 is 36.

21. Twice the sum of three times a number and -7 results in 70.

2. The sum of a number and -6 is 14.

4. The difference of a number and 8 is 13.

6. The sum of a number and -3 is -21 .

8. A number increased by -11 results in -17 .

10. The sum of a number and -17 is 13.

12. The quotient of a number and 7 results in 11.

14. The product of 15 and a number is -90 .

16. Twice a number and 10 is equal to -24 .

18. Twice the sum of a number and 9 is 26.

20. The quotient of twice a number and 5 results in -12 .

22. Six more than twice a number is equal to -14 .

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Solve each word problem.

- 23.** The sum of Lee and his son's age is 57 years. If his son is 15 years old, how old is Lee?
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- 24.** Ali paid \$24 for a DVD. He could have rented four movies for the same amount. What is the cost of renting one movie?
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- 25.** A 38 foot log is cut into two pieces. If one piece is 29 feet long, what is the length of the other piece?
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- 26.** After a \$15 discount, Amir paid \$34 for a concert ticket. What is the original price of the ticket?
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- 27.** Joann's bank account balance was decreased by \$765 and is now \$1,345. What was her original bank account balance?
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- 28.** Joe pays \$130 a month for his cell phone bill. He has three cell phone lines and a \$25 insurance charge on each bill. What is the cost of one cell phone line?
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- 29.** Mary spent \$78 on two books. She received a \$22 discount for buying two books. How much was the price of each book originally?
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- 30.** Colleen bought two TVs and received a \$125 discount. If her bill came to \$2,045 after the discount, what was the original price of one TV?
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