Elementary Algebra Skill

Setting Up and Solving Number Problems Leading to Linear Equations

Set up and solve.

- **1.** A number added to 15 gives 40. Find the number.
- 2. 8 subtracted from a number yields 15. What is the number?
- 3. What number multiplied by -6 gives the product 48?
- 4. This number divided by 12 produces the quotient 40. What is the dividend?
- 5. The sum of three times a number and 7 is equal to -8. What is the number?
- 6. 21 is the difference of 9 and four times a number. Find the number.
- 7. Twice the sum of a number and 4 is -10. What is the number?
- 8. Find a number which when subtracted from 4 times the number yields 36.
- 9. The sum of twice a number and 7 is equal to the sum of the number and 6. Find the number.
- **10.** The difference of three times a number and 1 is the same as twice the number. Find the number.
- 11. The sum of 4 times a number and -2 is equal to the sum of 5 times a number and -2. Find the number.
- 12. The sum of two consecutive even integers is 6. Find the integers.
- 13. Find three consecutive integers whose sum is 36.
- 14. Find three consecutive even integers whose sum is -66.
- 15. Find four consecutive odd integers whose sum is 56.
- 16. The sum of twice a number and 5 is the same as the difference of the number and 2. Find the number.
- **17.** Twice the difference of a number and 7 equals 2 less than three times the number. What is the number?
- **18.** A number added to two times the sum of 3 and the number yields 14 less the number. Find the number.
- **19.** Three times the sum of a number and 5 added to twice the difference of 6 and the number gives 15. What is the number?
- **20.** Half the difference of twice a number and 6 is the same as one-fourth the sum of the number and 3. What is the number?

Answers to Setting Up and Solving Number Problems Leading to Linear Equations

- 1) 25
- **2**) 23
- 3) -8
- **4)** 480
- 5) -5
- 6) -3
- 7) –9
- **8**) 12
- 9) -1
- **10**) 1
- **11**) 0
- **12**) 2 and 4
- **13**) 11, 12, 13
- 14) -24, -22, -20
- **15**) 11, 13, 15, 17
- **16**) –7
- **17**) −12
- **18**) 2
- **19**) –12
- **20)** 5