Unit 1 Equations Day 3 Homework

Solving One-Step Equations

Exercises

Solve each equation. Then check your solution.

1. $\dfrac{h}{3} = -2$ 2. $\dfrac{1}{8}m = 6$ 3. $\dfrac{1}{5}p = \dfrac{3}{5}$

4. $5 = \dfrac{y}{12}$ 5. $-\dfrac{1}{4}k = -2.5$ 6. $-\dfrac{m}{8} = \dfrac{5}{8}$

Exercises

Solve each equation. Then check your solution.

1. $x + 12 = 6$ 2. $z + 2 = -13$ 3. $-17 = b + 4$

4. $s + (-9) = 7$ 5. $-3.2 = \ell + (-0.2)$ 6. $-\dfrac{3}{8} + x = \dfrac{5}{8}$

Exercises

Solve each equation. Then check your solution.

1. $3h = -42$ 2. $8m = 16$ 3. $-3t = 51$

4. $-3r = -24$ 5. $8k = -64$ 6. $-2m = 16$

Solving Two-Step Equations

Exercises

Solve each equation. Then check your solution.

1. $5x + 2 = 27$ 2. $6x + 9 = 27$ 3. $5x + 16 = 51$

4. $14n - 8 = 34$ 5. $0.6x - 1.5 = 1.8$ 6. $\dfrac{7}{8}p - 4 = 10$

7. $16 = \dfrac{d - 12}{14}$ 8. $8 + \dfrac{3n}{12} = 13$ 9. $\dfrac{g}{-5} + 3 = -13$

Equations Word Problems

10. The difference of a number and eight is equal to 14. What is the number?

11. A number decreased by fourteen is equal to eighteen. What is the number?

12. What number increased by 20 equals -10?

13. The sum of a number and fifty equals eighty. Find the number.

14. A number divided by eight equals 3. Find the number.

15. One half times a number equals 6. Find the number.

16. Four times a number equals 64. Find the number.

17. A number is divided by 3, and then 4 is added to the quotient. The result is 8. Find the number.

18. A number multiplied by 5, and then 3 is subtracted from the product. The result is 12. Find the number.

19. Three times a number plus 3 is 24. Find the number

20. A number is divided by 2, and then 8 is subtracted from the quotient. The result is 16. What is the number?