**For #1 − 10, solve for the given variable.**

1. *x* + 11 = 7

2. 5 = *z* + 12

3. *q* – 13 = -13

4. 7*x* = 21

5. 64 = 4*x*

6. 

7. 

8. 

9. 

10. 

**In #11 − 13, write an algebraic expression for the problem and solve.**

11. Peter is collecting tokens on breakfast cereal packets in order to get a model boat. In five weeks he has collected 10 tokens. He needs 26 tokens for the boat. How many more tokens does he need to collect?

12. Peter is collecting tokens on breakfast cereal packets in order to get a model boat. In five weeks he has collected 10 tokens. He needs 26 tokens for the boat. How many tokens did he collect each week?

13. Peter is collecting tokens on breakfast cereal packets in order to get a model boat. In five weeks he has collected 10 tokens. He needs 26 tokens for the boat. If he keeps collecting tokens at the same rate, how many more weeks does he need to collect tokens until he gets the boat?

**In #14 − 18, combine like terms.**

14. −7*x* + 39*x*

15. 3*x*2 + 21*x* + 5*x* + 10*x*2

16. 6*xy* + 7*y* + 5*x* + 9*xy*

17. 10*ab* + 9 – 2*ab*

18. −7*mn* – 2*mn*2 – 2*mn* + 8

**In #19 − 24, solve for the variable and check your solution.**

19. 4(*x* + 3) = 1

20. 33*t* – 99 = 0

21. 14*x* + 9*x* = 46

22. 3*m* – 1 + 4*m* = 5

23. 8*x* + 3 = 11

24. 24 = 2*x* + 6

**In #25 − 26, write an algebraic expression for the problem and solve.**

25. A mechanic charges $98 for parts and $60 per hour for labor. Your bill totals $498.00, including parts and labor. How many hours did the mechanic work?

26. Jade is stranded in Downtown L.A. with only $10 to get home. Taxis cost $0.75 per mile, but there is an additional $2.35 charge just to hire the taxi. How many miles she can travel with her money?