

**3.2****Challenge Practice**

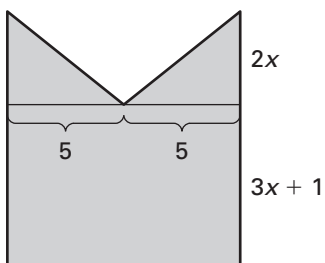
For use with pages 125–129

**Solve the equation. Check your solution.**

1.  $61 = 16 + 5(t - 3)$
2.  $-8(3x - 4) + 1 = 15$
3.  $8c = 14 - 0.5(10c + 2)$
4.  $4z = 28 - 0.25(4 - 16z)$
5. Your brother bought some fish and an aquarium for \$250. The aquarium was \$175 and the fish were \$6.25 each. How many fish did your brother buy?
6. The sum of three numbers is 39. Let  $x$  be the first number. The second number is 5 more than the first number and the third number is two times the second number. What are the three numbers?
7. The difference of two numbers is  $-14$ . Let  $m$  be the first number. The second number is 4 more than 3 times the first number. What are the two numbers?

**Find the value of  $x$ .**

8. The figure below is composed of a rectangle and two congruent triangles. It has an area of 90 square units.



9. The figure below is composed of a rectangle and two pairs of congruent triangles. It has an area of 19 square units.

