

**Solve for the unknown quantity.**

1.  $32 = -8(w - 6)$

2.  $4n + 2(n + 10) = 62$

3.  $4z + 6 = 2(2z + 3)$

4.  $6(2x - 8) + 3 = 15$

5.  $-2 + 8r - 4r = 18$

6.  $5a = 10a + 3 - 5a$

7.  $8y - 3 = 6y + 17$

8.  $3(m - 2) = 3m - 2$

9.  $11x = 24 + 8x$

10.  $5p + 2 = 4p - 1$

11.  $3 - \frac{2}{9}b = \frac{1}{3}b - 7$

12.  $7 = 6x - x - 3$

13.  $15 - \frac{1}{6}n = \frac{1}{6}n - 1$

14.  $2n - 1 + 3n = 5n - 1$

15.  $7a + 10 = 2a$

16.  $5a + 12 = a$

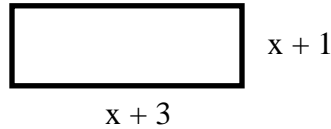
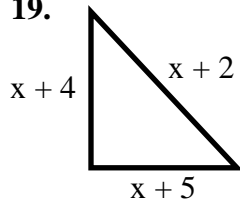
Solve for the unknown quantity.

17.  $-6f + 13 = 2f - 11$

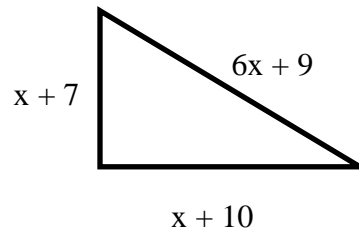
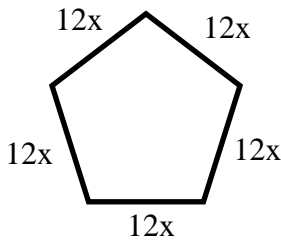
18.  $2.5h - 15 = 4h$

Write an equation to find the value of  $x$  so that each pair of polygons has the same perimeter. Then solve.


19.



20.



21.

 **Find the Error** Alma is solving the equation  $4a - 5 = 2a - 3$ . Circle her mistake and correct it.

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$4a - 5 = 2a - 3$   
 $4a - 2a - 5 = 3$   
 $2a - 5 = 3$   
 $2a = 8$



Simplify by performing the indicated operation.

22.  $\frac{1}{2} - \frac{3}{4}$

23.  $2\frac{3}{4} \div \frac{3}{8}$

24.  $\frac{5}{6} - 2\frac{1}{8}$

25.  $\frac{4}{5} - \frac{6}{7}$