Sixth Grade: Activity 12 Practice
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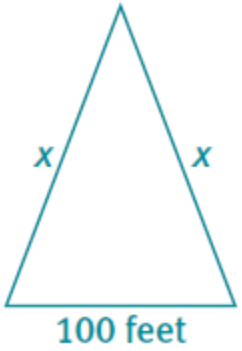
Lesson 12-1

1. number $+ 17 = 51$, let $n =$ number, $n + 17 = 51$
2. $6 \times$ number $= 66$, let $n =$ number, $6n = 66$
3. \$31.24 + Luther's spending = \$52.96, let $L =$ Luther's spending, \$31.24 $+ L =$ \$52.96
4. $64 -$ Carla's cards $= 49$, let $C =$ Carla's cards, $64 - C = 49$
5. number $\div 9 = 8$, let $n =$ number, $\frac{n}{9} = 8$
6. $8 +$ wins needed $= 11$, let $w =$ wins needed, $8 + w = 11$
7. $20 \times$ number of cookie sheets $= 100$, let $c =$ number of cookie sheets, $20c = 100$
8. $2(80) + 2 \times$ length $= 400$, let $l =$ length, $160 + 2l = 400$
9. expression; no equal sign
10. equation; has equal sign
11. equation; has equal sign
12. expression; no equal sign
13. B
14. A
15. An equation contains an equal sign while an expression does not.
16. Ross is correct. The 93 is the sum of both Ross's and Kristen's DVDs. Kristen has x DVDs and Ross has twice as many so $2x$ DVDs. The equal must contain the sum of x and $2x$.

Lesson 12-2

17. To solve an equation means to find the value of the variable that makes the equation a true statement.
18. 6
19. 4
20. 5
21. 8
22. 12
23. 0
24. 12
25. 7
26. 20
27. 7
28. 4
29. 3, 5
30. 5
31. 10
32. 4
33. $100 = lw$
34. $100 = 5l$
35. 20; sample answer: what number times 5 gives 100?
36. **a.**



b. $2x + 100 = 450$
c. 175 feet