6. A group of neighbors are sharing the cost of renting a bounce house for their block party. The cost to rent a bounce house is $160. How much will each neighbor owe if five neighbors help pay the rental fee? eight neighbors? ten neighbors?

Write an algebraic expression that represents each situation.

7. You can type 90 words per minute. How many words can you type in \(m\) minutes?

\[90m\]

8. You have 4 key chains on your backpack. How many key chains will you have if you get \(k\) more key chains over the summer?

9. You buy 100 yo-yos to give away as prizes at a carnival. If \(p\) people win a prize, how many yo-yos will you have left?

10. You want to store an equal number of books on each of the 5 shelves on your bookcase. If you have \(b\) books, how many books will be on each shelf?

11. Bulk trail mix costs $1.95 per pound. How much will you pay for \(t\) pounds of trail mix?

12. You have 300 phone minutes per month. How many \(m\)-minute calls can you make per month?
### Lesson 7.4 Skills Practice

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NAME</strong></td>
<td><strong>DATE</strong></td>
</tr>
</tbody>
</table>

Write an algebraic expression that represents each word expression.

13. a number, \( x \), times twelve
   
   \[ 12x \]

14. \( r \) divided by seven

15. thirty-four more than a number, \( h \)

16. sixteen minus \( m \)

17. twenty-eight divided by \( s \)

18. nine times \( w \)

19. \( p \) plus fifty-one

20. one hundred less than \( g \)

Write a sentence to describe the algebraic expression.

21. \( 13v \)

   thirteen times any number, \( v \)

22. \( 5 - h \)

23. \( m + 21 \)

24. \( \frac{k}{10} \)
State the numerical coefficient and constant for each algebraic expression.

27. $9 + y$
   numerical coefficient: $1$
   constant: $9$

28. $46n$
   numerical coefficient: $46$
   constant: $0$

29. $\frac{g}{3}$
   numerical coefficient: $\frac{1}{3}$
   constant: $0$

30. $c - \frac{7}{8}$
   numerical coefficient: $1$
   constant: $-\frac{7}{8}$

31. $5.16d$
   numerical coefficient: $5.16$
   constant: $0$

32. $29 - q$
   numerical coefficient: $1$
   constant: $29$
Write the meaning of each algebraic expression. Then, evaluate the algebraic expression for the given value.

33. \(27 - c\) if \(c = 13\)
   - 27 minus \(c\)
   - 27 - 13 → Subtract 13 from 27.
   - 14

34. \(6a + 11\) if \(a = 8\)

35. \(7x - 9\) if \(x = 3\)

36. \(34 - y^2\) if \(y = 5\)

37. \(m^3 + 18\) if \(m = 2\)

38. \(\frac{d}{5} + 42\) if \(d = 70\)
Complete each table. Identify the relationship between the two columns given by the algebraic expression.

### 39. \(56 - \frac{2}{3}w^2\) if \(w = 6\)

### 40. \(\frac{7}{b^3} + \frac{1}{8}\) if \(b = 4\)

<table>
<thead>
<tr>
<th>(d)</th>
<th>(d - 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>22</td>
</tr>
<tr>
<td>44</td>
<td>39</td>
</tr>
<tr>
<td>55</td>
<td>50</td>
</tr>
<tr>
<td>90</td>
<td>85</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(x)</th>
<th>(x + 13)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td></td>
</tr>
</tbody>
</table>

Each value in the right column is 5 less than the corresponding value in the left column.