Algebra: Expressions and Addition Properties

You can write an algebraic expression for a word phrase.

<table>
<thead>
<tr>
<th>Word Phrase</th>
<th>Algebraic Expression</th>
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<tbody>
<tr>
<td>a number decreased by 5</td>
<td>$n - 5$</td>
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Write an algebraic expression for each word phrase.

1. add 12 to a number
   
2. 3 less than a number
   
3. 14 plus a number
   
4. 20 more than a number
   
5. take 16 from a number
   
6. a number reduced by 5

Translate each algebraic expression into words.

7. $k + 9$
   
8. $25 - a$
   
9. $x - 7$
   
10. $11 + b$

11. $h - 13$

12. $50 + c$

Evaluate each expression when $b = 18$. Then write $>$, $<$, or $=$ to compare the expressions.

13. $b - 0 \bigcirc 36 - b$

14. $24 - b \bigcirc b - 8$

15. $7 + b \bigcirc b + 7$

16. $(b + 5) + 4 \bigcirc b + (5 + 4)$

Problem Solving

17. In Mrs. Campbell’s class, there are 17 boys and some girls. Write an algebraic expression that describes the number of students in the class.

Show Your Work