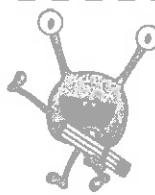


# Writing Equations Notes



Fill in each box with the key words that signal each operation/symbol.

Addition	
Subtraction	
Multiplication	
Division	
Equal Sign	

## ***Let's review writing expressions.***

5 more than the sum of a number and 12.

\_\_\_\_\_

4 times of the sum of a number and 8.

\_\_\_\_\_

6 more than the quotient of a number and 15.

\_\_\_\_\_

10 less than the sum of a number and 2.

\_\_\_\_\_

***Writing equations is very similar! All you have to include is an equal sign. Let's practice!***

6 less than a number is 18.

\_\_\_\_\_

The quotient of 7 and a number is 28.

\_\_\_\_\_

The sum of a number and 20 is 8.

\_\_\_\_\_

5 less than half a number is 40.

\_\_\_\_\_

25 is four more than a number.

\_\_\_\_\_

13 less than a number is 4 more than a different number.

\_\_\_\_\_



# More Practice Writing Equations



Write each equation. Find your answer in one of the two answer boxes.

#	Equation	Answer 1	Answer 2
1	The sum of 36 and a number is 14.	$36 + 14 = n$	$n + 36 = 14$
2	Fourteen less than a number is 5.	$n - 14 = 5$	$14 - n = 5$
3	2 more than half a number is 6.	$2n + 2 = 6$	$\frac{1}{2}n + 2 = 6$
4	5 less than the sum of a number and 4 is 20.	$5 - (n + 4) = 20$	$(n + 4) - 5 = 20$
5	The sum of triple a number and 6 is 9.	$3n + 6 = 9$	$3 \cdot 6 + n = 9$
6	12 more than the difference of half a number and 3 is 45.	$\frac{1}{2}n + 12 = 45$	$(\frac{1}{2}n - 3) + 12 = 45$
7	The product of 14 and a number is 140.	$14 \cdot n = 140$	$14 + n = 140$
8	15 less than the quotient of a number and 6 is 30.	$(n \div 6) - 15 = 30$	$(6 \div n) - 15 = 30$
9	The sum of half a number and 3 is 21.	$\frac{1}{2}n + 3 = 21$	$\frac{1}{2} + n + 3 = 21$
10	13 less than the product of a number and 6 is 50.	$13 - (n \cdot 6) = 50$	$(n \cdot 6) - 13 = 50$

## Exercise 16H

For each question, introduce a prounumeral for the unknown and follow the steps given on page 163.

- 1 In each part, find the number.
  - a A number has 7 added to it and the result is 15.
  - b A number has 11 subtracted from it and the result is 23.
  - c A number is divided by 7 and the result is 14.
  - d A number is multiplied by 4 and the result is 48.
  - e A number is multiplied by 7 and the result is 31.
  - f A number is multiplied by 6, and 3 is added to the result. The final result of this is 39.
  - g A number is multiplied by 7, and 6 is subtracted from the result. The final result of this is 23.
  - h A number is multiplied by 3, and 11 is subtracted from the result. The final result of this is 45.
  - i A number is multiplied by 7, and 12 is added to the result. The final result of this is 98.
  - j A number has 3 added to it and the result is multiplied by 4. The final result of this is 40.
  - k A number has 7 subtracted from it and the result is multiplied by 8. The final result of this is 32.
  - l A number has 2 is added to it and the result is multiplied by 6. The final result of this is 50.
- 2 A square has perimeter 84 cm. Find the length of each side of the square.
- 3 The width of a rectangle is three times the length of the rectangle. The perimeter of the rectangle is 96 cm. Find the length and the width of the rectangle.