

Name: \_\_\_\_\_

## ALGEBRA INTRODUCTION: LETTERS AS UNKNOWN NUMBERS



In algebra, letters represent numbers in equations.  
The letter  $x$  is often used, and  $2x$  means '2 multiplied by  $x$ '. To avoid confusion, the multiplication sign is not used.



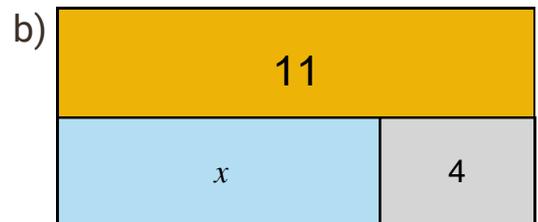
Use inverse operations to find the solution!



$$x + 9 = 14$$

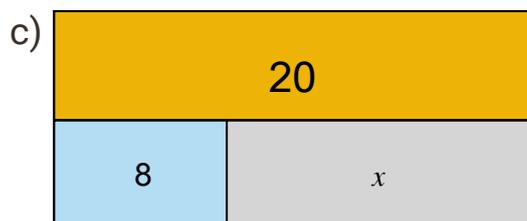
$$\color{red}{-9} \quad \color{red}{-9}$$

$$x = \boxed{5}$$



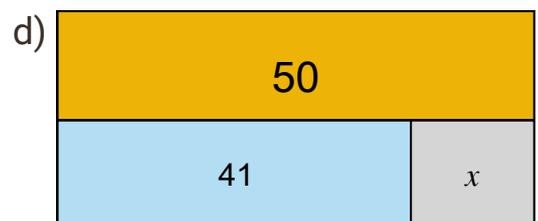
$$x + 4 = 11$$

$$x = \boxed{\phantom{00}}$$



$$8 + x = 20$$

$$x = \boxed{\phantom{00}}$$

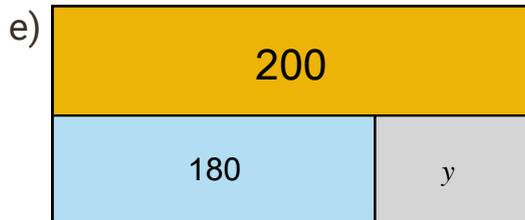


$$41 + x = 50$$

$$x = \boxed{\phantom{00}}$$

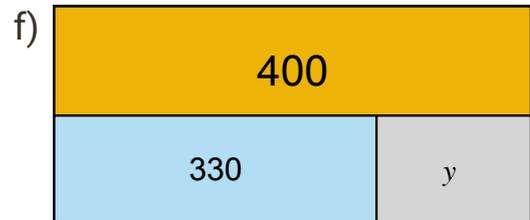
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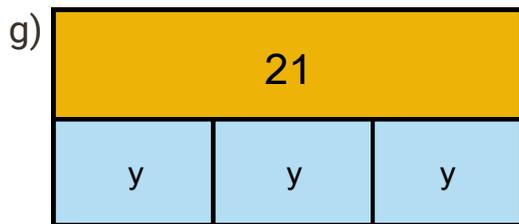
$$180 + y = 200$$

$$y = \square$$



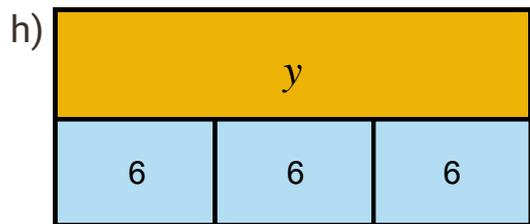
$$330 + y = 400$$

$$y = \square$$



$$3y = 21$$

$$y = \square$$



$$y = 3 \times 6$$

$$y = \square$$



$$6y = 48$$

$$y = \square$$