

Page 300 Homework Solutions

①  $23 = x - 9$  when  $x = 14$   
 $23 = 14 - 9$   
 $23 = 5$   
↖ ↗  
Not equal **NO**  $x$  does not  
= 14

②  $\frac{n}{13} = 4$  when  $n = 52$   
 $\frac{52}{13} = 4$   
↓  
 $4 = 4$   
↖ ↗  
equal **Yes**  
 $n = 52$

③  $14 + x = 46$   $x = 32$   
 $14 + 32 = 46$   
↓  
 $46 = 46$  ✓  
↖ ↗  
Equal **Yes**  $x$  is equal to 32

④  $17y = 85$   $y = 5$   
 $17(5) = 85$   
↖ ↗  
 $85 = 85$   
↖ ↗  
equal **Yes**  
 $y$  is equal  
5

⑤  $25 = \frac{k}{5}$   $k = 5$   
 $25 = \frac{5}{5}$   
 $25 = 1$   
↖ ↗  
NOT Equal **NO**  
 $k$  does not = 5

⑥  $2.5n = 45$   $n = 18$   
 $2.5(18) = 45$   
↓  
 $45 = 45$   
↖ ↗  
Equal **Yes**  
 $n$  does = 18

$$\textcircled{7} \quad 21 = m + 9 \quad m = 11$$

$$21 = 11 + 9$$

$$21 = 20$$

NOT EQUAL **No**

m does not = 11

$$\textcircled{8} \quad 21 - h = 15 \quad h = 6$$

$$21 - 6 = 15$$

$$15 = 15 \checkmark$$

Equal **Yes** h = 6

$$\textcircled{9} \quad d - 4 = 19 \quad d = 15$$

$$15 - 4 = 19$$

$$11 = 19$$

Not Equal **No**

d does not = 15

$$\textcircled{10} \quad 5 + x = 47 \quad x = 52$$

$$5 + 52 = 47$$

$$57 = 47$$

Not equal

**No** x does not equal 52

$$\textcircled{11} \quad w - 9 = 0 \quad w = 9$$

$$9 - 9 = 0$$

$$0 = 0$$

Equal **Yes** w does = 9

$$\textcircled{12} \quad 5q = 31 \quad q = 13$$

$$5(13) = 31$$

$$65 = 31$$

Not Equal **No**

q does not equal 13

⑬ Number of Floors  $\times$  Number of Rooms on Each Floor = Total Number of Rooms

8  $\times$  r = 256

✓  
8r = 256

⑭  $\frac{f}{2} = 5$

⑮  $8t = 208$        $t = 26?$      $t = 28?$

$8(26) = 208$

$208 = 208$  ✓



Equal so  $t = 26$

⑯  $24 + L = 92$

$L = 68$  or  $L = 62?$

$24 + 62 = 92$

✓  
 $86 = 92$

Not equal  
 so the low was not  
 62

$24 + 68 = 92$

✓  
 $92 = 92$

Equal so the low  
was 68

