

Practice A

Tell whether the given value is a solution of the equation.

1.
$$x + 16 = 20$$
; $x = 4$

2.
$$p-4=28; p=32$$

3.
$$4w = 44$$
; $w = 10$

4.
$$\frac{y}{6} = 6$$
; $y = 24$ **\(\)0**

Solve the equation. Check your solution.

5.
$$x-5=9$$
 $x=14$

6.
$$y - 12 = 0$$

5.
$$x-5=9$$
 $x=14$ 6. $y-12=0$ $y=12$ 7. $q+8=25$ $q=17$

8.
$$f - 22 = 14 \ \mathbf{f} = 36$$

9.
$$8 + s = 10$$
 $S = 2$

8.
$$f - 22 = 14$$
 $f = 36$ 9. $8 + s = 10$ $S = 2$ 10. $r - 3.2 = 1.7$ $Y = 4.9$

11.
$$8.9 = v + 7.3 \text{ V= 1.6}$$
 12. $\frac{1}{3} + n = \frac{2}{3} \text{ N= \frac{1}{3}}$ 13. $\frac{2}{3} = \frac{1}{4} + g$ $g = \frac{5}{12}$

13.
$$\frac{2}{3} = \frac{1}{4} + g$$
 $g = \frac{5}{12}$

Describe and correct the error in solving the equation.

14.
$$\begin{array}{|c|c|c|c|} \hline & & 13 + m = & 56 \\ & & + 13 & & + 13 \\ \hline & & m = & 69 \\ \hline \end{array}$$

$$\begin{array}{c|c}
 & 27 = n - 15 \\
 & -15 & +15 \\
\hline
 & 12 = n
\end{array}$$

Write the word sentence as an equation. Then solve the equation.

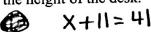
16. 20 equals 8 more than a number y.

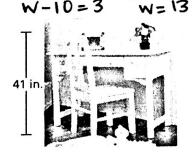
20=8+4

- 18. 4 less than a number g equals 9. 9=13
- 17. The sum of a number x and 12 equals 15.

X=3 X+12=15 19. A number w decreased by 10 is 3.

9-4=9 20. The height of a desk is 11 inches shorter than the height of a chair. Write and solve an equation to find the height of the desk.





- 21. The Florida Panther has an average height of 30 inches. It is 20 inches taller than the Northern Mockingbird. Write and solve an equation to find the h +20=30 average height of the Northern Mockingbird. h=10 m.
- 22. The advertised price of a cell phone is \$149 after a \$50 mail-in rebate. Write and solve an equation to find the price of the cell phone before x - 50 = 149the rebate is applied.