Solving Equations

Emphasis on 2-Step Linear Equations – Multiplication & Division

Solve each of the following.

1. $\frac{a}{10} = 5$

$10 \cdot \left[\frac{a}{10} = 5\right] \cdot 10$

$a = 50$

2. $\frac{4x}{4} = \frac{48}{4}$

$x = 12$

3. $\frac{b}{6} = -21$

$6 \cdot \left[\frac{b}{6} = -21\right] \cdot 6$

$b = -126$

4. $\frac{6w}{6} = \frac{-54}{6}$

$w = -9$

5. $\frac{d}{8} = 12$

$8 \cdot \left[\frac{d}{8} = 12\right] \cdot 8$

$d = 96$

6. $\frac{24}{-8} = \frac{-8n}{-8}$

$-3 = n$ OR $n = -3$

7. $\frac{f}{15} = -15$

$15 \left[\frac{f}{15} = -15\right] 15$

$f = -225$

8. $\frac{20}{5} = \frac{5g}{5}$

$4 = g$ OR $g = 4$

9. $\frac{g}{21} = 6$

$21 \left[\frac{g}{21} = 6\right] 21$

$g = 126$

10. $\frac{-4q}{-4} = \frac{52}{-4}$

$q = -13$

11. $\frac{48}{8} = \frac{8c}{8}$

$6 = c$ OR $c = 6$

12. $\frac{h}{9} = 7$

$9 \left[\frac{h}{9} = 7 \right] \cdot 9$

$h = 63$

13. $\frac{-109}{9} = \frac{9j}{9}$

$\frac{-109}{9} = j$ OR $j = \frac{-109}{9}$

14. $\frac{m}{11} = -14$

$11 \left[\frac{m}{11} = -14 \right] \cdot 11$

$m = -154$

15. $\frac{15}{-1} = \frac{-h}{-1}$

$-15 = h$ OR $h = -15$

16. $\frac{n}{25} = 8$

$25 \left[\frac{n}{25} = 8 \right] 25$

$n = 200$

17. $\frac{187}{-17} = \frac{-17r}{-17}$

$-11 = r$ OR $r = -11$

18. $\frac{t}{3} = -9$

$3 \left[\frac{t}{3} = -9 \right] \cdot 3$

$t = -27$

19. $\frac{-3.3a}{-3.3} = \frac{19.8}{-3.3}$

$a = -6$

20. $\frac{k}{4} = 100$

$4 \left[\frac{k}{4} = 100 \right] 4$

$k = 400$