

Practice Problems

1. Solve $d = rt$ for r
2. Solve $P = \frac{144p}{y}$ for p
3. Solve $R = \frac{cS}{d}$ for C
4. Solve $P = a + b + c$ for b
5. Solve $T = m - n$ for n
6. Solve $A = \frac{a+b}{2}$ for b
7. Solve $V = lwh$ for w
8. Solve $m = \frac{y_2 - y_1}{x_2 - x_1}$ for y_2
9. Solve $ax + by = c$ for y
10. Solve $A = \frac{a+b+c+d}{4}$ for c
11. Solve $S = 2(lw + lh + wh)$ for w
12. Solve $P = 2(l + w)$ for l
13. Solve $d = \frac{c}{\pi}$ for π
14. Solve $\frac{1}{f} = \frac{1}{a} + \frac{1}{b}$ for f
15. Solve $A = p(1 + rt)$ for t
16. Solve $I = prt$ for r
17. Solve $ax + b = c$ for a
18. Solve $S = 2\pi rh$ for h
19. Solve $A = 2\pi r^2 + 2\pi rh$ for h
20. Solve $y - y_1 = m(x - x_1)$ for x
21. Solve $R = \frac{l+3w}{2}$ for w
22. Solve $ax + by + c = 0$ for y
23. Solve $C = \frac{5}{9}(F - 32)$ for F
24. Solve $\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$ for R
25. Solve $H = \frac{62.4NS}{33,000}$ for N
26. Solve $B = \frac{703w}{h^2}$ for w
27. Solve $K = \frac{1}{2}mv^2$ for m
28. Solve $5t - 2r = 25$ for t
29. Solve $S = R - rR$ for R
30. Solve $V = \frac{1}{3}\pi h^2(3r - h)$ for r
31. Solve $A = \frac{1}{2}nal$ for n
32. Solve $\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$ for T_1
33. Solve $F = \frac{gm_1m_2}{d^2}$ for g
34. Solve $\frac{12ds}{w} = CD$ for w
35. Solve $A = \frac{1}{2}bh$ for b
36. Solve $s = r\theta$ for θ
37. Solve $h = vt - 16t^2$ for v
38. Solve $C = \frac{100B}{L}$ for L
39. Solve $A = S(1 - DN)$ for N
40. Solve $D = \frac{11}{5}(P - 15)$ for P
41. Solve $E = IR$ for I
42. Solve $E = mc^2$ for c^2
43. Solve $F = \frac{lt}{d}$ for l
44. Solve $A = 2\pi r^2 + 2\pi rh$ for π

Practice Problems Key

$$1. r = \frac{d}{t}$$

$$2. p = \frac{Py}{144}$$

$$3. C = \frac{Rd}{s}$$

$$4. b = P - a - c$$

$$5. n = m - T$$

$$6. b = 2A - a$$

$$7. w = \frac{v}{lh}$$

$$8. y_2 = mx_2 - mx_1 + y_1$$

$$9. y = \frac{c-ax}{b}$$

$$10. c = 4A - a - b - d$$

$$11. w = \frac{S-2lh}{2l+2h}$$

$$12. l = \frac{P-2w}{2}$$

$$13. \pi = \frac{c}{d}$$

$$14. f = \frac{ab}{b+a}$$

$$15. t = \frac{A-p}{pr}$$

$$16. r = \frac{l}{pt}$$

$$17. a = \frac{c-b}{x}$$

$$18. h = \frac{S}{2\pi r}$$

$$19. h = \frac{A-2\pi r^2}{2\pi r}$$

$$20. x = \frac{y-y_1+mx_1}{m}$$

$$21. w = \frac{2R-l}{3}$$

$$22. y = \frac{-ax-c}{b}$$

$$23. F = \frac{9}{5}C + 32$$

$$24. R = \frac{R_1R_2}{R_2+R_1}$$

$$25. N = \frac{33,000H}{62.4S}$$

$$26. w = \frac{Bh^2}{703}$$

$$27. m = \frac{2k}{v^2}$$

$$28. t = \frac{2}{5}r + 5$$

$$29. R = \frac{S}{1-r}$$

$$30. r = \frac{3V+\pi h^3}{3\pi h^2}$$

$$31. n = \frac{2A}{al}$$

$$32. T_1 = \frac{T_2P_1V_1}{P_2V_2}$$

$$33. g = \frac{Fd^2}{m_1m_2}$$

$$34. w = \frac{12ds}{CD}$$

$$35. b = \frac{2A}{h}$$

$$36. \theta = \frac{s}{r}$$

$$37. v = \frac{h+16t^2}{t}$$

$$38. L = \frac{100B}{c}$$

$$39. N = \frac{S-A}{SD}$$

$$40. P = \frac{5}{11}D + 15$$

$$41. I = \frac{E}{R}$$

$$42. c^2 = \frac{E}{m}$$

$$43. l = \frac{Fd}{t}$$

$$44. \pi = \frac{A}{2r^2+2rh}$$