Changing the Subject of a Formula - 1

Change the subject of each formula to the letter in brackets:

1. $h = w + k \quad (w)$ **2.** $a = b - c \quad (b)$ **3.** $p = u - v \quad (u)$

4. $A = LB \quad (L)$ **5.** $F = ma \quad (a)$ **6.** $s = vt \quad (v)$

7. $D = \frac{M}{V} \quad (M)$ **8.** $c = n + a \quad (n)$ **9.** $g = m - c \quad (m)$

10. $f = nw \quad (w)$ **11.** $V = Ah \quad (h)$ **12.** $d = t + k \quad (t)$

13. $m = \frac{s}{d} \quad (s)$ **14.** $p = s - c \quad (s)$ **15.** $V = IR \quad (R)$

16. $z = uw \quad (u)$ **17.** $C = \pi d \quad (d)$ **18.** $h = \frac{t}{3} \quad (t)$

19. $a = bc \quad (b)$ **20.** $x = \frac{y}{m} \quad (y)$

The questions below involve two steps. Change the subject of each formula to x.

21. $y = 2x + k$ **22.** $y = 4x - c$ **23.** $y = 3x + a$

24. $y = 2x - p$ **25.** $y = 3x - n$ **26.** $y = 4x + r$

27. $y = ax + b$ **28.** $y = px + q$ **29.** $y = kx - a$

30. $y = ux - v$ **31.** $y = mx + c$ **32.** $y = ax - t$

33. $y = px - c$ **34.** $y = kx + f$ **35.** $y = cx + r$

Answers

1. $w = h - k$ **2.** $b = a + c$ **3.** $u = p + v$

4. $L = \frac{A}{B}$ **5.** $a = \frac{F}{m}$ **6.** $v = \frac{s}{t}$

7. $M = DV$ **8.** $n = c - a$ **9.** $m = g + c$

10. $w = \frac{f}{n}$ **11.** $h = \frac{V}{A}$ **12.** $t = d - k$

13. $s = dm$ **14.** $s = p + c$ **15.** $R = \frac{V}{I}$

16. $u = \frac{z}{w}$ **17.** $d = \frac{C}{\pi}$ **18.** $t = 3h$

19. $b = \frac{a}{c}$ **20.** $y = mx$ **21.** $x = \frac{y - k}{2}$

22. $x = \frac{y + c}{4}$ **23.** $x = \frac{y - a}{3}$ **24.** $x = \frac{y + p}{2}$

25. $x = \frac{y + n}{3}$ **26.** $x = \frac{y - r}{4}$ **27.** $x = \frac{y - b}{a}$

28. $x = \frac{y - q}{p}$ **29.** $x = \frac{y + a}{k}$ **30.** $x = \frac{y + v}{u}$

31. $x = \frac{y - c}{m}$ **32.** $x = \frac{y + t}{a}$ **33.** $x = \frac{y + c}{p}$

34. $x = \frac{y - f}{k}$ **35,** $x = \frac{y - r}{c}$