Algorithm that applies weights to RED without using multiplication or division

if (packet color is red) {
    tmin = red_tmin
    tmax = red_tmax
    delta = red_delta
} else if (packet color is yellow) {
    tmin = yellow_tmin
    tmax = yellow_tmax
    delta = yellow_delta
} else {
    tmin = green_tmin
    tmax = green_tmax
    delta = green_delta
}
invoke RED(tmin, tmax, delta)

Figure 22.5 The tests that allow WRED to select parameters without using floating point arithmetic. The constants for each color (e.g., red_tmin, red_tmax, and red_delta) are defined at compile time.