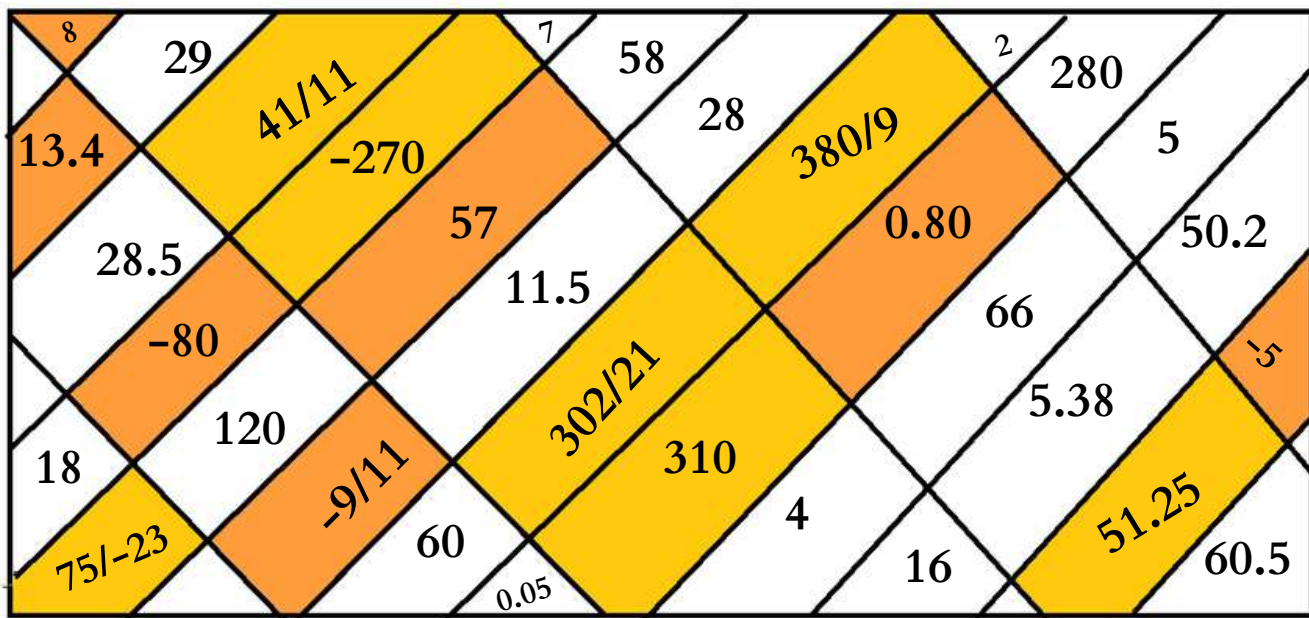


Answer



$$\begin{aligned}
 1. \quad & 5(y-60) - 3(y+20) = 180 \\
 & 5y - 300 - 3y - 60 = 180 \\
 & 2y - 360 = 180 \\
 & 2y = -540 \\
 & y = -270
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & 12v - 5(6+7v) = 45 \\
 & 12v - 30 - 35v = 45 \\
 & -23v = 45 + 30 \\
 & -23v = 75 \\
 & v = 75/-23 = -3.260
 \end{aligned}$$

$$\begin{aligned}
 3. \quad & 1/3(18-m) + 4(m - 48) = 65 \\
 & 18/3 - m/3 + 4m - 192 = 65 \\
 & 18 - 576/3 - m + 12m/3 = 65 \\
 & -558/3 - 13m/3 = 65 \\
 & -13m/3 = 65 \times 3/558 \\
 & m = 65/186 \times 3/13 \\
 & m = 310
 \end{aligned}$$

$$\begin{aligned}
 4. \quad & (48-c) - 8(c-55) = -68 \\
 & 48 - c - 8c + 440 = -68 \\
 & 448 - 9c = -68 \\
 & -9c = 380 \\
 & c = 380/9 = 42.22
 \end{aligned}$$

$$\begin{aligned}
 5. \quad & 7(56-8g) - 9(-3-5g) = 460 \\
 & 392 - 56g + 27 + 45g = 460 \\
 & 419 - 11g = 460 \\
 & -11g = 41 \\
 & g = 41/11 = 3.7272
 \end{aligned}$$

$$\begin{aligned}
 6. \quad & 9(3m - 18) + 6(90-m) = 680 \\
 & 27m - 162 + 540 - 6m = 680 \\
 & 21m + 378 = 680 \\
 & 21m = 302 \\
 & m = 302/21 = 14.38
 \end{aligned}$$

$$\begin{aligned}
 7. \quad & 1/2(50-2d) + 7(2k - 7) = 168 \\
 & 50/2 - 2d/2 + 200 + 5d = 961 \\
 & 50 + 400/2 - 2d + 10d/2 = 961 \\
 & 450/2 - 12d/2 = 961 \\
 & -12d/2 = 961 \times 2/450 \times 12 \\
 & d = 961 \times 2/450 \times 12 \\
 & d = 51.25
 \end{aligned}$$

$$\begin{aligned}
 8. \quad & 6(5k + 2) + 7(2k - 7) = 168 \\
 & 30k + 12 + 14k - 49 = 168 \\
 & 41k - 37 = 168 \\
 & 41k = 205 \\
 & k = 5
 \end{aligned}$$

$$\begin{aligned}
 9. \quad & -60 = 6(2u - 7) - (9 + u) \\
 & -60 = 12u - 42 - 9 - u \\
 & -60 = 11u - 51 \\
 & -9 = 11u \\
 & -9/11 = -0.8181 = u
 \end{aligned}$$

$$\begin{aligned}
 10. \quad & 18 = 7(3 - e) + 4(2e - 15) \\
 & 18 = 21 - 7e + 8e - 60 \\
 & 18 = -39 + e \\
 & 57 = e
 \end{aligned}$$

$$\begin{aligned}
 11. \quad & -5 = -7(-12p + 40) - 7(30 - 48) \\
 & -5 = 84p - 280 - 21p + 336 \\
 & -5 = 56 + 63p \\
 & 51/63 = 0.80 = p
 \end{aligned}$$

$$\begin{aligned}
 12. \quad & 1/2(3f + 96) - f = 8 \\
 & 3f/2 + 96/2 - f = 8 \\
 & 3f - 2f/2 + 96/2 = 8 \\
 & f/2 = 8 - 96/2 \\
 & f/2 = 16 - 96/2 \\
 & f/2 = -80/2 \\
 & f = -80
 \end{aligned}$$

$$\begin{aligned}
 13. \quad & 64 = 5(4r - 18) + 3(2 - 40) \\
 & 64 = 20r - 90 - 114 \\
 & 64 = 20r - 204 \\
 & 268 = 20r \\
 & 13.4 = r
 \end{aligned}$$

$$\begin{aligned}
 14. \quad & -6 = -1(6b + 8) - 4(2 - b) \\
 & -6 = -6b - 8 - 8 + 4b \\
 & -6 = -2b - 16 \\
 & 10 = -2b \\
 & -5 = b
 \end{aligned}$$