Pg. 127 (26-33)

(26) $\frac{a-2}{9} = \frac{2}{3}$

$3(a-2) = 9(2)$

$3a - 6 = 18$

$+6 \quad +6$

$\frac{3a}{3} = \frac{24}{3}$

$a = 8$

(27) $\frac{b+4}{5} = \frac{7}{4}$

$4(b+4) = 5(7)$

$4b + 16 = 35$

$-16 \quad -16$

$\frac{4b}{4} = \frac{19}{4}$

$b = \frac{19}{4} = 4\frac{3}{4} = 4.75$

(28) $\frac{3}{7} = \frac{c+4}{35}$

$7(c+4) = 3(35)$

$7c + 28 = 105$

$-28 \quad -28$

$\frac{7c}{7} = \frac{77}{7}$

$c = 11$

(29) $\frac{2c}{11} = \frac{c-3}{4}$

$4(2c) = 11(c-3)$

$8c = 11c - 33$

$-11c \quad -11c$

$\frac{-3c}{-3} = \frac{-33}{-3}$

$c = 11$

(30) $\frac{7}{k-2} = \frac{5}{8}$

$5(k-2) = 56$

$5k - 10 = 56$

$+10 \quad +10$

$\frac{5k}{5} = \frac{66}{5}$

$k = \frac{66}{5}$ or 13.2

(31) $\frac{3}{3b+4} = \frac{2}{b-4}$

$3(b-4) = 2(3b+4)$

$3b - 12 = 6b + 8$

$-6b \quad +12 \quad -6b \quad +12$

$\frac{-3b}{-3} = \frac{20}{-3}$

$b = \frac{-20}{3}$ or $-6\frac{2}{3}$

(32) $\frac{q+2}{5} = \frac{2q-11}{7}$

$7(q+2) = 5(2q-11)$

$7q + 14 = 10q - 55$

$-7q \quad +55 \quad -7q \quad +55$

$\frac{69}{3} = \frac{3q}{3}$

$q = 23$

(33) $\frac{c+1}{c-2} = \frac{4}{7}$

$7(c+1) = 4(c-2)$

$7c + 7 = 4c - 8$

$-4c \quad -7 \quad -4c \quad -7$

$\frac{3c}{3} = \frac{-15}{3}$

$c = -5$