

Pg 98

45-53, 55, 56, 61, 62

$$45. \quad 6 + \frac{v}{-8} = \frac{4}{7}$$

$$56(6) + (\cancel{56})(\frac{v}{-8}) = \frac{4}{7} (\cancel{56})8$$

$$336 + -7v = 32$$

$$-336 \quad -336$$

$$-7v = -304$$

$$v = 43\frac{3}{7}$$

$$46. \quad \frac{2}{3}(c-18) = 7$$

$$\frac{2c}{3} - \frac{2(18)}{3} = 7$$

$$\cancel{3} \frac{2c}{3} - \frac{\cancel{36} \cdot \cancel{3}}{3} = 7 \cdot 3$$

$$2c - 36 = 21$$

$$+36 \quad +36$$

$$\frac{2c}{2} = \frac{57}{2}$$

$$c = 28\frac{1}{2}$$

$$47. \quad 3d + d - 7 = \frac{25}{4}$$

$$4 \cdot 4d - 7 \cdot 4 = \frac{25}{4} \cdot 4$$

$$16d - 28 = 25$$

$$+28 \quad +28$$

$$16d = 53$$

$$d = 3\frac{5}{16}$$

$$48. \quad .25(d-12) = 4$$

$$.25d - 3 = 4$$

$$+3 = +3$$

$$.25d = 7$$

$$.25 \quad .25$$

$$d = 28$$

$$49. \quad 8n - (2n - 3) = 12$$

$$8n - 2n + 3 = 12$$

$$6n + 3 = 12$$

$$-3 \quad -3$$

$$6n = 9$$

$$n = 1\frac{1}{2}$$

$$50. \quad \frac{2}{3} + n + 6 = \frac{3}{4}$$

$$4 \left(\frac{2}{3} \right) + 12 \cdot n + 6 \cdot 12 = \frac{3}{4} \cdot 12$$

$$8 + 12n + 72 = 9$$

$$12n + 80 = 9$$

$$-80 \quad -80$$

$$12n = -71$$

$$\frac{12n}{12} = \frac{-71}{12}$$

$$n = 5\frac{1}{12}$$

$$\begin{aligned}
 51. \quad & .5d - 3d + 5 = 0 \\
 & -2.5d + 5 = 0 \\
 & -2.5d - 5 = -5 \\
 & -2.5d = -5 \\
 & \frac{-2.5}{-2.5} = \frac{-5}{-2.5} \\
 & d = 2
 \end{aligned}$$

$$\begin{aligned}
 55. \quad & 1 \text{ pkg} + 3 \text{ meal} \\
 & \text{Angie } 20 + 3m
 \end{aligned}$$

$$\begin{aligned}
 & \text{Kenny } 1 \text{ pk} + 2 \text{ meal} \\
 & 20 + 2m
 \end{aligned}$$

$$\text{Total} = 115$$

$$\begin{aligned}
 52. \quad & -(w+5) = -14 \\
 & -w - 5 = -14 \\
 & \quad +5 \quad +5 \\
 & -w = -9 \\
 & \frac{-1}{-1} = \frac{-9}{-1} \\
 & w = 9
 \end{aligned}$$

$$20 + 3m + 20 + 2m = 115$$

$$\begin{aligned}
 40 + 5m &= 115 \\
 -40 \quad & \quad -40 \\
 \hline
 5m &= 75 \\
 \frac{5m}{5} &= \frac{75}{5} \\
 m &= 15
 \end{aligned}$$

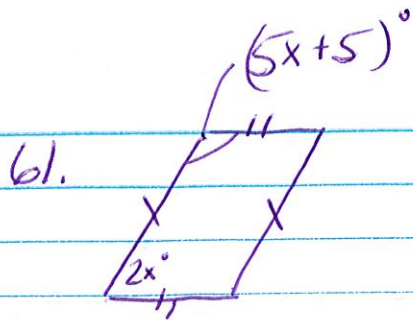
$$53. \quad \frac{a}{20} + \frac{4}{15} = \frac{9}{15}$$

56) The 8 should be distributed to all terms

$$\begin{aligned}
 3 \left(\frac{a}{20} + \frac{4}{15} \right) &= \frac{9}{15} (60) \cdot 4 \\
 3a + 4 \cdot 4 &= 36 \\
 3a + 16 &= 36 \\
 -16 \quad & \quad -16 \\
 \hline
 3a &= 20 \\
 3 \quad & \quad 3 \\
 a &= \frac{20}{3}
 \end{aligned}$$

$$8 \left(\frac{3x-1}{8} \right) = 8 \frac{5}{8}$$

$$\begin{aligned}
 3x - 8 &= 5 \\
 +8 \quad & +8 \\
 \hline
 3x &= 13 \\
 x &= \frac{13}{3}
 \end{aligned}$$



FIND X

$$2(5x+5) + 2(2x) = 360$$

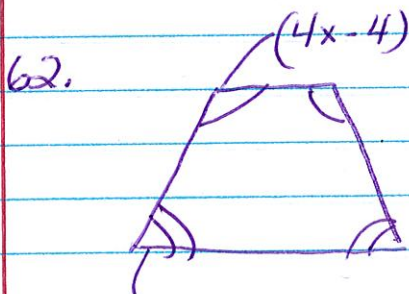
$$10x + 10 + 4x = 360$$

$$14x + 10 = 360$$

$$\begin{array}{r} -10 \\ 14x = 350 \end{array}$$

$$\begin{array}{r} 14 \\ \underline{14} \end{array} = \begin{array}{r} 350 \\ \underline{14} \end{array}$$

$$x = 25$$



$$(3x+2)$$

$$2(4x-4) + 2(3x+2) = 360$$

$$8x - 8 + 6x + 4 = 360$$

$$14x - 4 = 360$$

$$\begin{array}{r} +4 \\ 14x = 364 \end{array}$$

$$\begin{array}{r} 14x = 364 \\ \underline{14} \end{array} = \begin{array}{r} 364 \\ \underline{14} \end{array}$$

$$x = 26$$