

52. g.  $\frac{m+15}{a} + \frac{m+7}{b} - \frac{m}{c}$

$m$  stands for the time that all 3 valves were open together.

53. a.  $.85c$

b.  $2(.85c)$  or  $.85(2c)$

c.  $.85c + .70c$  or  $1.55c$

d.  $.85c$

e.  $2c$  centiliters of 85%

f.  $2c$  centiliters of  $77\frac{1}{2}\%$

g.  $2c$  centiliters of  $42\frac{1}{2}\%$

h.  $(c+d)$  centiliters of  $\frac{85c}{c+d}\%$

54. a. 20 pounds of 75%

b. 25 pounds of 80%

c. 25 pounds of  $\frac{10(80) + 15(60)}{10+15}\%$

OR 25 pounds of 68%

d. 20 pounds of 40%

e.  $(10+p)$  pounds of 80%

f.  $(10+p)$  pounds of  $\frac{80(10)}{10+p}\%$

g.  $(10 + p)$  pounds of  $\frac{80(10) + 70p}{10+p}\%$

h. 30 pounds of  $\frac{10(80) + 10(70) + 10(60)}{10 + 10 + 10}\%$

OR 30 pounds of 70%

i.  $10 + p + q + r$  pounds of  $\frac{80(10) + 70p + 60q + 30r}{10 + p + q + r}\%$