Question #9566David paid \$9.50 for some 15 cent, 25 cent, and 45 cent stamps. He bought 38 stamps and the number of 25 cent stamps was 8 more than twice the number of 45 cent stamps. How many of each type did David buy?. **Solution.** Denote the number of 25 cent stamps by x, 15 — by y and 45 by z. The condition implies x+y+z=38, x=8+2z and 0.15y+0.25x+0.45z=9.5. Hence y=38-z-8-2z=30-3z and 4.5-0.45z+2+0.5z+0.45z=9.5. So, z=6 and y=12, thus x=20.

Answer The number of 15 cent is 12, 25 - 20,45 - 6.