Hint: Convert to decimal as an intermediate step.

a) Convert 3CB. 13₁₅ to base 8

$$(3 \times 15^{2}) + (12 \times 15') + (11 \times 15^{\circ}) + (1 \times 15^{-1}) + (3 \times 15^{-2})$$

 $(675 + 180 + 11 + .066 + 013 = 866.079,0$

b) Convert 363.124₇ to base 11

$$(3 \times 7^{2}) + (6 \times 7) + 3 + (1 \times 7^{-1}) + (2 \times 7^{-2}) + (4 \times 7^{-3})$$

 $147 + 42 + 3 + 0.143 + 0.041 + 0.012 = 192.196_{00}$

165. 217,