

1. $\boxed{96}$

2. $\boxed{1107}$

3. $\boxed{81}$

4. \boxed{C}

5. $\boxed{9\clubsuit 3 = 1107, 5\clubsuit 4 = 6170}$

6. $\boxed{10 * 2 = 25, 12 * 4 = 51}$

7. $\boxed{9\triangle 4 = 45, 9\triangle(4\triangle 3) = 153}$

8. (a) $\boxed{6}$

(b) $\boxed{3}$

9. (a) $\boxed{120}$

(b) $\boxed{4}$

10. (a) $\boxed{21}$

(b) $\boxed{45}$

(c) $\boxed{45}$