

3.87  
72

$$\textcircled{1} \binom{2}{8} \binom{3}{22} = 43,120$$

$\downarrow$                        $\rightarrow$   
 10/5                      10/5 10

$$\textcircled{2} \binom{2}{8} \binom{2}{22} + \binom{3}{8} \binom{2}{22} + \binom{4}{8} \binom{1}{22} + \binom{5}{8} \binom{0}{22}$$

$\downarrow$                        $\downarrow$                        $\downarrow$                        $\downarrow$   
 10/5 2                      10/5 3                      10/5 4                      10/5 5

$$\binom{5}{8} = \binom{5}{22} \binom{0}{8} - \binom{1}{8} \binom{4}{22}$$

$\downarrow$                        $\downarrow$                        $\downarrow$                        $\downarrow$   
 10/5 5                      22 8                      8 22                      10/5 4

10/11 10/3