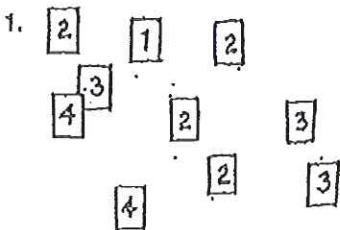


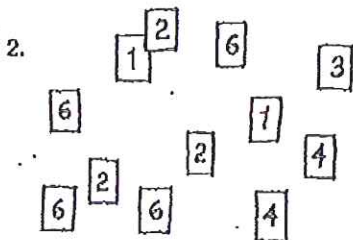
## Enrichment Worksheet for 390.- 391

Imagine thoroughly shuffling each deck of cards and then picking a card. Give each probability in lowest terms.



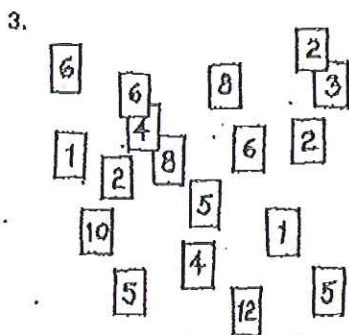
a.  $P(1) = \frac{1}{10}$   
 c.  $P(3) = \frac{3}{10}$   
 e.  $P(\text{not } 4) = \frac{8}{10} = \frac{4}{5}$   
 g.  $P(\text{not } 3) = \frac{7}{10}$

b.  $P(2) = \frac{4}{10} = \frac{2}{5}$   
 d.  $P(4) = \frac{2}{10} = \frac{1}{5}$   
 f.  $P(\text{not } 1) = \frac{9}{10}$   
 h.  $P(\text{not } 2) = \frac{6}{10} = \frac{3}{5}$



a.  $P(1) = \frac{2}{12} = \frac{1}{6}$   
 c.  $P(3) = \frac{1}{12}$   
 e.  $P(\text{not } 4) = \frac{10}{12} = \frac{5}{6}$   
 g.  $P(\text{prime number}) = \frac{6}{12} = \frac{1}{2}$

b.  $P(2) = \frac{3}{12} = \frac{1}{4}$   
 d.  $P(5) = \frac{0}{12} = 0$   
 f.  $P(\text{not } 5) = \frac{12}{12} = 1$   
 h.  $P(\text{composite number}) = \frac{6}{12} = \frac{1}{2}$



a.  $P(6) = \frac{3}{18} = \frac{1}{6}$   
 c.  $P(\text{not } 1) = \frac{16}{18} = \frac{8}{9}$   
 e.  $P(8) = \frac{2}{18} = \frac{1}{9}$   
 g.  $P(\text{prime number}) = \frac{9}{18} = \frac{1}{2}$   
 i.  $P(\text{not a prime}) = \frac{9}{18} = \frac{1}{2}$   
 k.  $P(\text{multiple of } 2) = \frac{12}{18} = \frac{2}{3}$   
 m.  $P(\text{factor of } 12) = \frac{12}{18} = \frac{2}{3}$   
 o.  $P(\text{not a factor of } 8) = \frac{9}{18} = \frac{1}{2}$

b.  $P(9) = \frac{0}{18} = 0$   
 d.  $P(\text{not } 7) = \frac{18}{18} = 1$   
 f.  $P(\text{not } 8) = \frac{16}{18} = \frac{8}{9}$   
 h.  $P(\text{composite number}) = \frac{9}{18} = \frac{1}{2}$   
 j.  $P(\text{not a composite}) = \frac{9}{18} = \frac{1}{2}$   
 l.  $P(\text{multiple of } 5) = \frac{4}{18} = \frac{2}{9}$   
 n.  $P(\text{factor of } 20) = \frac{4}{18}$   
 p.  $P(\text{not a multiple of } 3) = \frac{13}{18}$