1) A marble is drawn randomly from a jar that contains 5 purple marbles, 2 blue balls, and 3 pink marbles. Find the probability of selecting

a) a purple marble

b) a blue marble

c) a pink marble

2) A bead is drawn randomly from a jar that contains 4 brown beads, 2 pink balls, and 3 blue beads. Find the probability of selecting

a) a brown bead

b) a pink bead

c) a blue bead
3) A counter is drawn randomly from a jar that contains 8 brown counters, 11 red balls, and 7 green counters.

Find the probability of selecting

a) a brown counter

b) a red counter

c) a green counter

4) A ball is drawn randomly from a jar that contains 5 pink balls, 8 purple balls, and 13 white balls.

Find the probability of selecting

a) a pink ball

b) a purple ball

c) a white ball
5) A marble is drawn randomly from a jar that contains 3 yellow marbles, 2 white balls, and 4 red marbles.

Find the probability of selecting

a) a marble that is not yellow

b) a yellow or red marble

c) a black marble

d) a marble that is not pink

6) A bead is drawn randomly from a jar that contains 2 brown beads, 5 red balls, and 3 green beads.

Find the probability of selecting

a) a bead that is not brown

b) a brown or green bead

c) a purple bead

d) a bead that is not black
Solutions for the assessment Simple probability - bag of objects

1) a) \( P(\text{purple marble}) = \frac{1}{2} \) 
    b) \( P(\text{blue marble}) = \frac{1}{5} \) 
    c) \( P(\text{pink marble}) = \frac{3}{10} \)

2) a) \( P(\text{brown bead}) = \frac{4}{9} \) 
    b) \( P(\text{pink bead}) = \frac{2}{9} \) 
    c) \( P(\text{blue bead}) = \frac{1}{3} \)

3) a) \( P(\text{brown counter}) = \frac{4}{13} \) 
    b) \( P(\text{red counter}) = \frac{11}{26} \) 
    c) \( P(\text{green counter}) = \frac{7}{26} \)

4) a) \( P(\text{pink ball}) = \frac{5}{26} \) 
    b) \( P(\text{purple ball}) = \frac{4}{13} \) 
    c) \( P(\text{white ball}) = \frac{1}{2} \)

5) a) \( P(\text{not yellow}) = \frac{2}{3} \) 
    b) \( P(\text{yellow or red}) = \frac{7}{9} \) 
    c) \( P(\text{black}) = 0 \) 
    d) \( P(\text{not pink}) = 1 \)

6) a) \( P(\text{not brown}) = \frac{4}{5} \) 
    b) \( P(\text{brown or green}) = \frac{1}{2} \) 
    c) \( P(\text{purple}) = 0 \) 
    d) \( P(\text{not black}) = 1 \)