

## Simple probability - bag of objects

Name:	Class:	Date:
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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

[1]

2) A bead is drawn randomly from a jar that contains 4 brown beads, 2 pink balls, and 3 blue beads. [1]

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

[1]

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

[1]

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

[1]

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

[1]

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)  $P(\text{not black}) = 1$