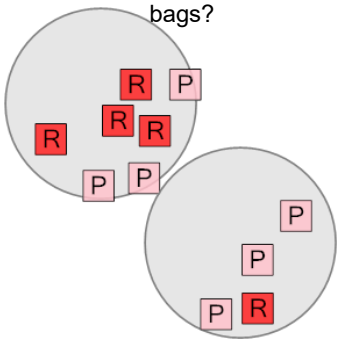
mobius

Math worksheet on *'Probability - Shapes, Two Sets of One Shape, Two Colors - Pick Two by Color, To Fraction Equation (Level 2)'*. Part of a broader unit on *'Probability and Counting - Multiple Events - Practice'*

Learn online:

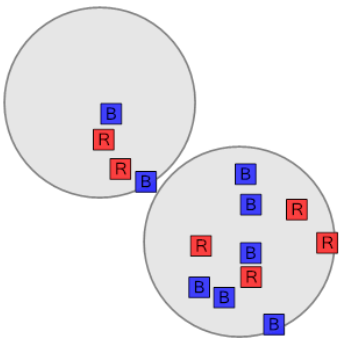
app.mobius.academy/math/units/probability_counting_multiple_event_practice/

1 What is the equation for the chance of drawing a pink shape at random from both bags?



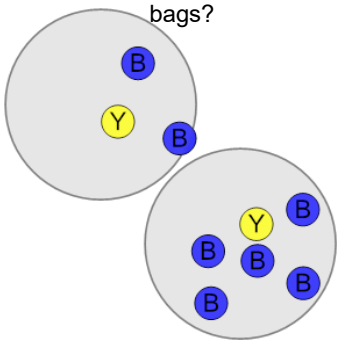
a	b	c
$\frac{1}{3} \cdot \frac{4}{4}$	$\frac{3}{7} \cdot \frac{3}{4}$	$\frac{7}{8} \cdot \frac{2}{5}$
d	**e**	**f**
$\frac{2}{5} \cdot \frac{1}{5}$	$\frac{4}{8} \cdot \frac{6}{6}$	$\frac{3}{3} \cdot \frac{1}{4}$

2 What is the equation for the chance of drawing a red shape at random from both bags?



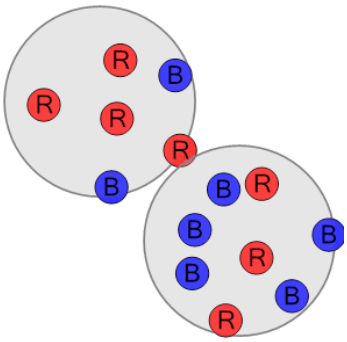
a	b	c
$\frac{1}{3} \cdot \frac{3}{5}$	$\frac{2}{10} \cdot \frac{4}{4}$	$\frac{4}{4} \cdot \frac{2}{2}$
d	**e**	**f**
$\frac{1}{3} \cdot \frac{6}{10}$	$\frac{4}{6} \cdot \frac{4}{4}$	$\frac{2}{4} \cdot \frac{4}{10}$

3 What is the equation for the chance of drawing a blue shape at random from both bags?



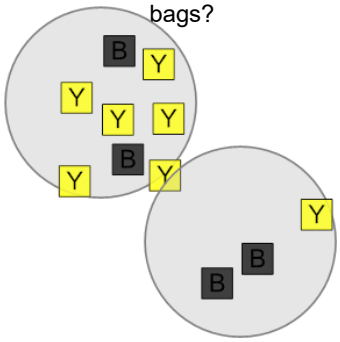
a	b	c
$\frac{3}{5} \cdot \frac{2}{3}$	$\frac{2}{8} \cdot \frac{1}{10}$	$\frac{2}{4} \cdot \frac{6}{8}$
d	**e**	**f**
$\frac{5}{5} \cdot \frac{5}{5}$	$\frac{4}{8} \cdot \frac{1}{8}$	$\frac{2}{3} \cdot \frac{5}{6}$

4 What is the equation for the chance of drawing a red shape at random from both bags?



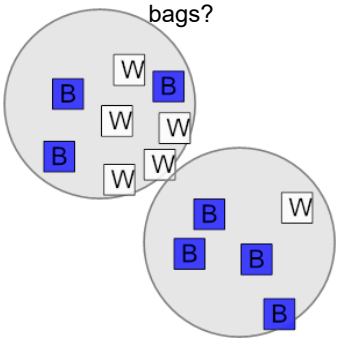
a	b	c
$\frac{3}{3} \cdot \frac{1}{2}$	$\frac{3}{3} \cdot \frac{1}{4}$	$\frac{3}{8} \cdot \frac{1}{5}$
d	**e**	**f**
$\frac{2}{10} \cdot \frac{2}{2}$	$\frac{2}{8} \cdot \frac{4}{10}$	$\frac{4}{6} \cdot \frac{3}{8}$

5 What is the equation for the chance of drawing a yellow shape at random from both bags?



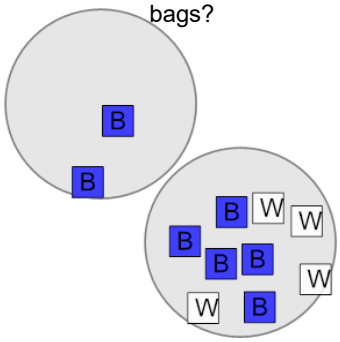
a	b	c
$\frac{1}{3} \cdot \frac{3}{5}$	$\frac{1}{6} \cdot \frac{1}{8}$	$\frac{6}{8} \cdot \frac{1}{3}$
d	**e**	**f**
$\frac{1}{3} \cdot \frac{1}{2}$	$\frac{2}{5} \cdot \frac{2}{2}$	$\frac{7}{10} \cdot \frac{2}{2}$

6 What is the equation for the chance of drawing a white shape at random from both bags?



a	b	c
$\frac{5}{8} \cdot \frac{1}{5}$	$\frac{4}{5} \cdot \frac{1}{4}$	$\frac{2}{3} \cdot \frac{1}{6}$
d	**e**	**f**
$\frac{3}{4} \cdot \frac{2}{8}$	$\frac{3}{4} \cdot \frac{1}{2}$	$\frac{2}{5} \cdot \frac{1}{6}$

7 What is the equation for the chance of drawing a blue shape at random from both bags?



a	b	c
$\frac{4}{5} \cdot \frac{4}{8}$	$\frac{2}{2} \cdot \frac{5}{9}$	$\frac{1}{2} \cdot \frac{7}{10}$
d	**e**	**f**
$\frac{4}{5} \cdot \frac{4}{5}$	$\frac{1}{10} \cdot \frac{10}{10}$	$\frac{4}{6} \cdot \frac{3}{10}$