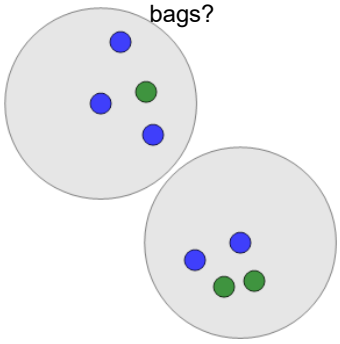
Math worksheet on *'Probability - Shapes, Two Sets of One Shape, Two Colors - Pick Two by Color, To Fraction Equation (Level 1)'*. Part of a broader unit on *'Probability and Counting - Multiple Events - Intro'*

Learn online:

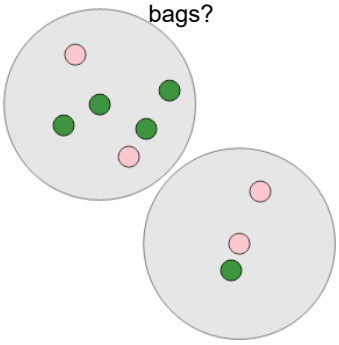
app.mobius.academy/math/units/probability_counting_multiple_event_intro/

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



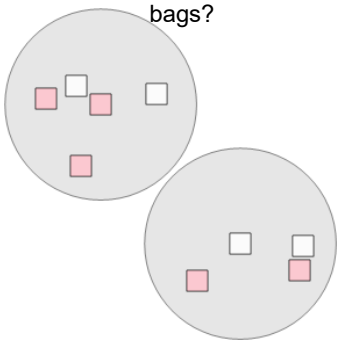
a	b	c
$\frac{4}{3} \cdot \frac{3}{7}$	$\frac{3}{10} \cdot \frac{3}{9}$	$\frac{2}{5} \cdot \frac{3}{3}$
d	**e**	**f**
$\frac{3}{4} \cdot \frac{2}{4}$	$\frac{4}{10} \cdot \frac{5}{11}$	$\frac{5}{4} \cdot \frac{3}{5}$

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



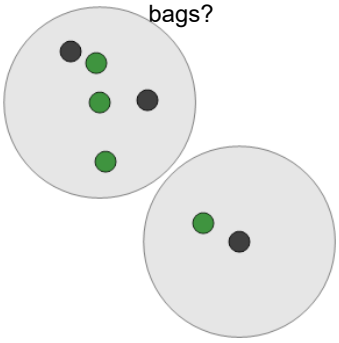
a	b	c
$\frac{5}{15} \cdot \frac{3}{8}$	$\frac{4}{6} \cdot \frac{1}{3}$	$\frac{2}{6} \cdot \frac{3}{3}$
d	**e**	**f**
$\frac{8}{14} \cdot \frac{2}{9}$	$\frac{3}{3} \cdot \frac{1}{7}$	$\frac{4}{14} \cdot \frac{2}{4}$

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



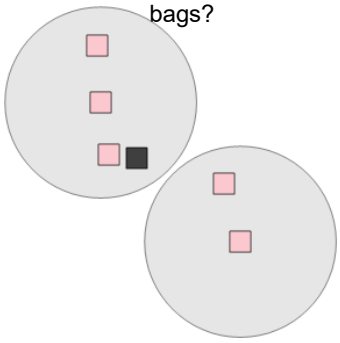
a	b	c
$\frac{3}{7} \cdot \frac{1}{4}$	$\frac{7}{11} \cdot \frac{5}{9}$	$\frac{6}{6} \cdot \frac{5}{5}$
d	**e**	**f**
$\frac{1}{7} \cdot \frac{5}{3}$	$\frac{3}{5} \cdot \frac{2}{4}$	$\frac{1}{9} \cdot \frac{1}{5}$

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



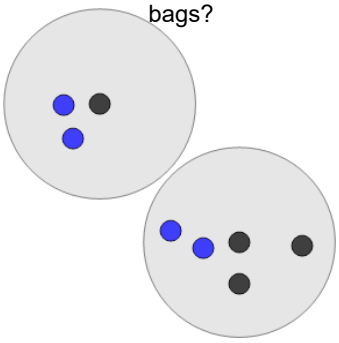
a	b	c
$\frac{2}{5} \cdot \frac{1}{2}$	$\frac{5}{9} \cdot \frac{2}{6}$	$\frac{5}{7} \cdot \frac{1}{5}$
d	**e**	**f**
$\frac{3}{11} \cdot \frac{1}{4}$	$\frac{4}{3} \cdot \frac{3}{7}$	$\frac{1}{11} \cdot \frac{2}{6}$

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



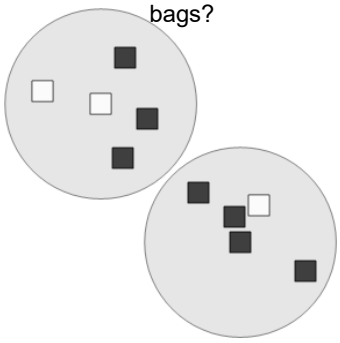
a	b	c
$\frac{4}{4} \cdot \frac{4}{3}$	$\frac{4}{10} \cdot \frac{4}{6}$	$\frac{3}{8} \cdot \frac{3}{4}$
d	**e**	**f**
$\frac{3}{4} \cdot \frac{2}{2}$	$\frac{7}{9} \cdot \frac{4}{6}$	$\frac{4}{4} \cdot \frac{4}{7}$

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



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

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



a	b	c
$\frac{3}{5} \cdot \frac{4}{5}$	$\frac{3}{8} \cdot \frac{8}{7}$	$\frac{1}{10} \cdot \frac{1}{12}$
d	**e**	**f**
$\frac{7}{11} \cdot \frac{4}{3}$	$\frac{6}{13} \cdot \frac{2}{6}$	$\frac{1}{6} \cdot \frac{2}{5}$