

Chapter 5 BLM Answers

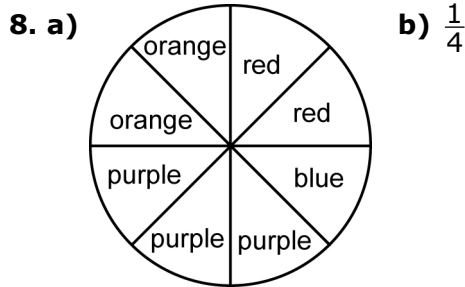
BLM 5-2 Probability

1. a) $\frac{1}{4}$ b) $\frac{2}{4} = \frac{1}{2}$ c) $\frac{5}{8}$
 2. a) 50% b) 100% c) 25% d) 75%
 3. a) 50%; $\frac{1}{2}$ b) 75%; $\frac{3}{4}$
 c) 30%; $\frac{3}{10}$
 4. a) $\frac{3}{4}$; 0.75; 75%
 b) $\frac{4}{10} = \frac{2}{5}$; 0.40; 40%
 c) $\frac{3}{12} = \frac{1}{4}$; 0.25; 25%
 5. 62.5%; $\frac{5}{8}$; 0.625

6. Class 3 Tally: $\text{###} \text{###} \text{III}$; 16

7.

Car Colour	Number of Cars
Red	$\text{###} \text{###}$
Blue	###
White	$\text{###} \text{II}$
Silver	$\text{###} \text{III}$



BLM 5-3 Section 5.1 Extra Practice

1. a) $\frac{1}{2}$ b) $\frac{1}{2} = \frac{50}{100} = 0.5$
 c) $0.5 \times 100\% = 50\%$
 2. a) $\frac{1}{5}$ b) $\frac{1}{5} = \frac{20}{100} = 0.2$
 c) $0.2 \times 100\% = 20\%$
 3. a) $\frac{2}{6} = \frac{1}{3}$ b) $\frac{1}{3} \approx 0.33333$
 c) $0.333 \times 100\% \approx 33.3\%$
 4. a) $\frac{0}{4}$ b) $\frac{0}{4} = \frac{0}{100} = 0.0$
 c) $0.0 \times 100\% = 0\%$

5. $P(\text{unsalted}) = \frac{5}{10} = 0.5 = 50\%$
 6. $P(\text{barbecue-flavoured}) = \frac{2}{10} = 0.2 = 20\%$
 7. $P(M) = \frac{1}{5} = 0.2 = 20\%$
 8. $P(\text{vowel}) = \frac{1}{6} \approx 0.166666 \approx 16.7\%$
 9. $P(\text{consonant}) = \frac{5}{6} \approx 0.833 \approx 83.3\%$

BLM 5-5 Section 5.2 Extra Practice

1. a)

	1	2	3	4	5	6
Yellow	Y,1	Y,2	Y,3	Y,4	Y,5	Y,6
Red	R,1	R,2	R,3	R,4	R,5	R,6
Blue	B,1	B,2	B,3	B,4	B,5	B,6
Green	G,1	G,2	G,3	G,4	G,5	G,6

- b) (Y,1),(Y,2),(Y,3),(Y,4),(Y,5),(Y,6),
 (R,1),(R,2),(R,3),(R,4),(R,5),(R,6),
 (B,1),(B,2),(B,3),(B,4),(B,5),(B,6),
 (G,1),(G,2),(G,3),(G,4),(G,5),(G,6)

2. a)

	1	2	3	4
Red	R,1	R,2	R,3	R,4
White	W,1	W,2	W,3	W,4

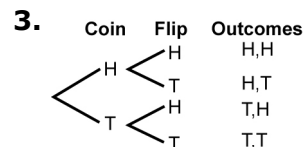
- b) (W,1),(W,2),(W,3),(W,4),(R,1),(R,2),
 (R,3),(R,4)

BLM 5-7 Section 5.3 Extra Practice

1. random, equal, heads, tails

2.

	Heads	Tails
Heads	H,H	H,T
Tails	T,H	T,T



4.

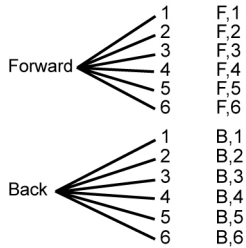
	Fraction	Decimal	Percent
a) $P(2$ different results)	$\frac{2}{4} = \frac{1}{2}$	0.50	50%
b) $P(H,H)$	$\frac{1}{4}$	0.25	25%
c) $P(\text{at least one H})$	$\frac{3}{4}$	0.75	75%

BLM 5-8 Section 5.4 Extra Practice

1. a) Check that students have a card with Forward on one side and Back on the other. They can use this manipulative to help them list all outcomes.

	1	2	3	4	5	6
Forward	F,1	F,2	F,3	F,4	F,5	F,6
Back	B,1	B,2	B,3	B,4	B,5	B,6

c) Card Flip Die Outcome d) 12



2. a) $P(F,3) = \frac{1}{12} \approx 8.33\%$

b) $P(1 \text{ or } 2) = \frac{4}{12} = \frac{1}{3} \approx 33.3\%$

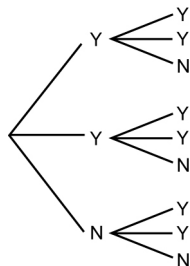
c) $\frac{6}{12} = 0.5 = 50\%$ d) $\frac{0}{12} = 0.0 = 0\%$

BLM 5-12 Section 5.5 Extra Practice

1. Answers will vary.

2. a), b) Answers will vary.

3. a) b) $\frac{4}{9}$ c) $\approx 44.4\%$

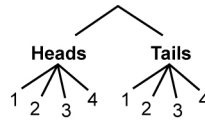


4. Answers may vary.

BLM 5-13 Chapter 5 Test

1. H 2. C 3. D 4. A 5. G
6. F 7. D 8. A 9. D 10. A

11.



12. $\frac{4}{6} = \frac{2}{3} \approx 66.7\%$ 13. $\frac{6}{13} \approx 46.2\%$

14. a)

	1	2	3	4
P	P,1	P,2	P,3	P,4
Q	Q,1	Q,2	Q,3	Q,4
R	R,1	R,2	R,3	R,4

b) 2 c) $P(Q, \text{even numbered ball}) = \frac{2}{12} = \frac{1}{6} \approx 0.166666 \approx 16.7\%$

15. a), b)

	1	2	3	4	5	6
1	1, 1	1, 2	1, 3	1, 4	1, 5	1, 6
2	2, 1	2, 2	2, 3	2, 4	2, 5	2, 6
3	3, 1	3, 2	3, 3	3, 4	3, 5	3, 6
4	4, 1	4, 2	4, 3	4, 4	4, 5	4, 6
5	5, 1	5, 2	5, 3	5, 4	5, 5	5, 6
6	6, 1	6, 2	6, 3	6, 4	6, 5	6, 6

c) $\frac{4}{36} = \frac{1}{9} \approx 11.1\%$