

# Chapter 1 BLM Answers

## BLM 1-3 Chapter 1 Warm-Up

### Section 1.1

1. a) 0.25 b) 0.75 c) 0.6 d) 0.5
2. a) 50% b) 1% c) 70% d) 55%
3. a) 0.5 b) 0.75 c) 0.04 d) 1.0  
e) 0.32 f) 0.08
4. a)  $1\frac{3}{16}$  b) 3 cm
5.  $72^\circ$

### Section 1.2

1. No
2. Yes
3. a) 3" b) 2"
4. a) 0.25 m b) 2 kg
5. a) maximum: 2.25 m, minimum: 1.75 m  
b) maximum: 17 kg, minimum: 13 kg

### Section 1.3

1.  $\frac{5}{36}$ , 0.14, 14%
2.  $\frac{1}{26}$
3. The probability of choosing a vowel is 4 in 11.
4. 2 to 9
5. 1 to 8

### Section 1.4

1.  $\frac{1}{2}$
2. 7 to 3
3.  $\frac{1}{4}$
4. 33%
5. 25%

## BLM 1-4 Section 1.1 Extra Practice

1. a) Yes b) No
2. It is accurate to the nearest  $10^\circ$ .
3. C
4. A: It is not the correct unit.  
B: The arrow does not point to  $7\frac{1}{16}$  in.
5. The length shown is the diameter, not the radius.
6. a) 0" b)  $\frac{1}{2}$ " c) 1" d) 1"

7. a)  $\frac{1}{8}$ ,  $\frac{3}{8}$ ,  $\frac{7}{8}$ , 1"

- b) 0 cm, 1 cm, 2 cm, 3 cm  
c) 0.3 cm, 1.0 cm, 2.1 cm, 2.6 cm

8. a) 7:15.68

b) Example: Maybe the time Marcus recorded was actually 7 min 31.00 s.

9. a)  $40^\circ$  b)  $10^\circ$  c)  $140^\circ$  d)  $165^\circ$

10. a)  $38^\circ$  b)  $12^\circ$  c)  $141^\circ$  d)  $165^\circ$

11. a) 4' 10" b) 5'

c) Example: Yes, because she is only  $\frac{1}{4}$ "

less than 4' 10" and this is within reasonable tolerance for measuring a person's height

d) Example: No, because  $2\frac{1}{4}$ " exceeds

reasonable tolerance for measuring a person's height

## BLM 1-5 Section 1.2 Extra Practice

1.

	Fraction	Decimal	Percent
a)	$\frac{3}{4}$	0.75	75%
b)	$\frac{2}{5}$	0.4	40%
c)	$\frac{3}{5}$	0.6	60%
d)	$\frac{1}{20}$	0.05	5%
e)	$\frac{4}{5}$	0.8	80%

2.  $\frac{1}{5}$ , 0.2, 20%

3. a)  $\frac{1}{6}$  b)  $\frac{1}{6}$  c)  $\frac{1}{6}$

d) The answers are the same because a die has six numbers, and only one of each number.

e)  $\frac{3}{6} = \frac{1}{2}$

4. a)  $\frac{1}{150}$  b)  $\frac{5}{150} = \frac{1}{30}$  c)  $\frac{10}{150} = \frac{1}{15}$

d)  $\frac{16}{150} = \frac{8}{75}$

5. a) RR, GG, YY, RG, RY, GR, GY, YR, YG

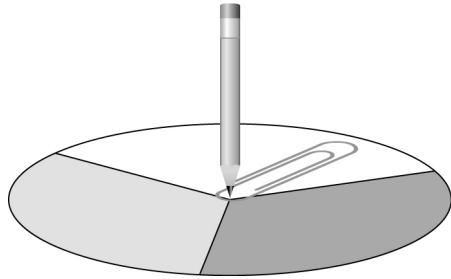
b)  $\frac{1}{9}$  c) 1:8



- 6. a)** blue: 40%; green: 30%; red: 20%; yellow: 10%  
**b)** 1:1 **c)** 7:3 **d)** 60%
- 7.**  $\frac{1}{12}$ ; Example: The rotation from 12 to 1 is  $\frac{1}{12}$  of the full rotation of the second hand.

**BLM 1-6 Section 1.3 Extra Practice**

- 1. a)**  $\frac{1}{4}$  **b)** 3 to 1  
**c)** There is a 1 in 4 chance of landing on M.  
**2. a)**  $\frac{10}{36}$  **b)**  $\frac{1}{2}$  **c)** 1 to 1 **d)** 11 to 1  
**3. a)**  $\frac{1}{13}$  **b)**  $\frac{4}{51}$  **c)** 5  
**4.** Example:



- 5.** c), a), d), b)  
**6. a)** 25% **b)** 20% **c)** Better  
**7. a)**  $\frac{3}{10}$  **b)** 30% **c)**  $\frac{9}{100}$  **d)** 9%

**BLM 1-7 Section 1.4 Extra Practice**

- 1. a)** 1 to 5 **b)** 1 to 1 **c)** 1 to 1  
**2. a)** 5 **b)** 20 **c)** 10  
**3. a)** 4% **b)** 1% **c)** 1% **d)** 0%  
**4. a)**  $\frac{3}{20}$  **b)**  $\frac{3}{5}$  **c)**  $\frac{14}{25}$   
**5.** 94  
**6. a)** 15% **b)** 85%  
**c)** No. Typically 15% of vehicles have a reported problem.  
**d)** 150  
**7. a)** D **b)** A **c)** D **d)** C **e)** C  
**8.** Great Fit  
**9. a)** 5 packs **b)** 1 to 2 plates

**BLM 1-8 Chapter 1 Test**

- 1.** D  
**2.** C  
**3.** B  
**4.** A  
**5.** B  
**6.** D  
**7.** No  
**8. a)**  $\frac{1}{18}$  **b)** 23% **c)**  $\frac{1}{8}$   
**9.** Example: Emily is correct because previous results do not have any effect on the next toss.  
**10. a)** 52.5 kg **b)** 200 kg  
**11.**  $\frac{1}{312}$

