

Chapter 1 BLM Answers

BLM 1-3 Chapter 1 Warm-Up

Section 1.1

- a) 0.25 b) 0.75 c) 0.6 d) 0.5
- a) 50% b) 1% c) 70% d) 55%
- a) 0.5 b) 0.75 c) 0.04 d) 1.0
e) 0.32 f) 0.08
- a) $1\frac{3}{16}$ b) 3 cm
- 72°

Section 1.2

- No
- Yes
- a) 3" b) 2"
- a) 0.25 m b) 2 kg
- a) maximum: 2.25 m, minimum: 1.75 m
b) maximum: 17 kg, minimum: 13 kg

Section 1.3

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

Section 1.4

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

BLM 1-4 Section 1.1 Extra Practice

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

- 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
- a) 7:15.68
b) Example: Maybe the time Marcus recorded was actually 7 min 31.00 s.
- a) 40° b) 10° c) 140° d) 165°
- a) 38° b) 12° c) 141° d) 165°
- 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%

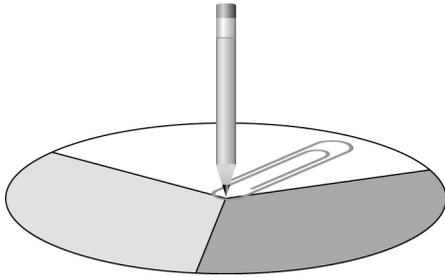
- $\frac{1}{5}$, 0.2, 20%
- a) $\frac{1}{6}$ b) $\frac{1}{6}$ c) $\frac{1}{6}$
d) The answers are the same because a die has six numbers, and only one of each number.
e) $\frac{3}{6} = \frac{1}{2}$
- a) $\frac{1}{150}$ b) $\frac{5}{150} = \frac{1}{30}$ c) $\frac{10}{150} = \frac{1}{15}$
d) $\frac{16}{150} = \frac{8}{75}$
- 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. $\frac{1}{312}$

