

Chapter 8 BLM Answers

BLM 8-3 Perimeter and Area

- a)** 24 cm **b)** 22 cm
- a)** $P = 2$ cm; $Q = 3$ cm
b) $P = 2$ cm; $Q = 5$ cm
- a)** 6 squares
b) 7 squares
c) 5 squares
- a)** 7 squares
b) 9.5 squares
c) 6.5 squares
- a)** 14 cm **b)** 16 cm
- a)** 9 cm^2 **b)** 12 cm^2
- 44 cm
- Answers will vary. For example: Count 4 squares in top row and add 1 square in bottom row. Divide into 2 rectangles and count 3 in horizontal rectangle and 2 in vertical rectangle. Make one large rectangle of 8 squares and subtract 3 squares.
- a)** C. Answers will vary. For example: C has the most fingers.
b) Answers will vary. For example: Measure the length of one finger and multiply by 8.
c) B. Answers will vary. For example: B is a full circle. A and C may have the same diameter but have missing pieces.

BLM 8-6 Section 8.1 Extra Practice

- a)** centre, radius, r
b) diameter, d
c) diameter, radius
- Look for three concentric circles with different diameters: 4, 5, and 3 cm.

BLM 8-8 Section 8.2 Extra Practice

- a)** circumference, C **b)** diameter, radius
c) multiplying **d)** dividing
- a)** 10.4 **b)** 6.2
c) 137.5 **d)** 3045.1
- Answers are in italics.
a) 22.2, 44.4, 139.4
b) 38.5, 77, 241.8
c) 17.9, 35.7, 112
d) 237, 474, 1488.4

BLM 8-10 Section 8.3 Extra Practice

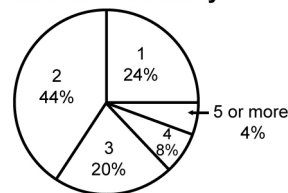
- a)** base, height **b)** $\pi \times r$ **c)** base
d) radius **e)** base, height, $\pi \times r \times r = \pi \times r^2$
- Answers are in italics.
a) 5, 25, 10, 75 **b)** 8, 64, 16, 192
- Answers are in italics.
a) 11, 22, 379.9 **b)** 6, 12, 113.0

BLM 8-12 Section 8.4 Extra Practice

- a)** Hockey, soccer, basketball, baseball, volleyball. (Baseball and volleyball tied.)
b) $25\% = \frac{25}{100} = \frac{1}{4}$
c) 5%
d) Look for any two sports not surveyed.
- a)** Hockey, $35\% = 0.35 \times 120 = 42$
b) Soccer, $25\% = 0.25 \times 120 = 30$
c) Basketball, $15\% = 0.15 \times 120 = 18$
d) Baseball, $10\% = 0.10 \times 120 = 12$
e) Volleyball, $10\% = 0.10 \times 120 = 12$
f) Other, $5\% = 0.05 \times 120 = 6$
- a)** 120. The numbers in a circle graph need to add up to 100% of the total.
b) The final column should add up to 120.

BLM 8-17 Section 8.5 Extra Practice

- a)** Answers are in italics.
 $6 + 11 + 5 + 2 + 1 = 25, 25$
b) 2, 11, $\frac{11}{25}$, 44%, 0.44, $0.44 \times 360^\circ = 158^\circ$
 $3, 5, \frac{5}{25}, 20\%, 0.2, 0.2 \times 360^\circ = 72^\circ$
 $4, 2, \frac{2}{25}, 8\%, 0.08, 0.08 \times 360^\circ = 29^\circ$
 $5 \text{ or more}, 1, \frac{1}{25}, 4\%, 0.04, 0.04 \times 360^\circ = 14^\circ$
Totals: 25, 100%, 1.00, 359°
- c)** Children Per Family



BLM 8-18 Chapter 8 Test

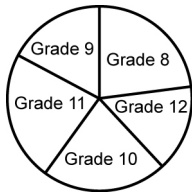
1. C **2.** D **3.** F **4.** B **5.** G **6.** A **7.** B

8. D **9.** B **10.** A **11.** 9.4 cm

12. $A = \pi \times r^2$
 $A = \pi \times 7.5^2$
 $A \approx 176.6 \text{ m}^2$

13. a) Answers are in italics.
 10, 280, 77.5°
 12, 200, 55.4°

b) Students should use a protractor to make sectors for Grades 10 (77.5°) and 12 (55.4°).



14. a) $C = \pi \times d$
 $3.14 \times 20 \text{ m} = 62.8 \text{ m}$
 $62.8 \text{ m} \times \$75 = \4710

b) $62.8 \text{ m} \times \$84 = \5275.20

c) \$565.20

d) $A = \pi \times r^2$
 $3.14 \times 100 = 314 \text{ m}^2$
 $314 \text{ m}^2 \times \$80 = \$25\,120$