



Answer Key

GRADE 5 • MODULE 6

Problem Solving with the Coordinate Plane

Lesson 1

Problem Set

- 3
 - 2 thirds
 - 7 thirds or $2\frac{1}{3}$
 - 14 thirds or $4\frac{2}{3}$
- Second tick mark from left
 - Fifth tick mark from left
 - First tick mark from right
 - 4 tick marks vertically from S
- 3 tick marks from the right
 - 7 tick marks from the right
 - $5\frac{3}{4}$
 - $3\frac{1}{4}$
 - 5
 - 2.5
- Lenox is correct. Any orientation is acceptable
- No. Explanations will vary.

Exit Ticket

- 6 tick marks from the right
 - $\frac{1}{5}$
 - $\frac{3}{5}$

Homework

- 3
 - 8
 - 14
 - 11
- 10 tick marks from the left
 - 11 tick marks from the left
 - 3 tick marks from the right
 - 1 tick mark from the right
- Second tick mark left of 0
 - 7 tick marks left of 0
 - $11\frac{1}{2}$
 - $\frac{1}{2}$
 - 9
 - 5
- Explanations will vary.

Lesson 2

Problem Set

- Answers will vary.
 - Answers will vary.
- Triangle, circle, square, octagon
 - Triangle
 - Parallelogram
 - Diamond
- $2, 1; 2, 3\frac{3}{4}; 0, 3\frac{3}{4}; 3\frac{3}{4}, 0)$
 - Star
 - Shapes plotted correctly.
- Explanations will vary.

Exit Ticket

- $\frac{1}{2}, 4\frac{1}{2}; 1\frac{1}{2}, 2; 4, 4\frac{1}{2}$
- Shapes plotted correctly.

Homework

- Answers will vary.
 - Answers may vary.
- Circle; diamond; triangle; heart
 - Star
 - Square
- $2\frac{1}{2}, 4; 4, 3; 1, 2; 0, 4\frac{1}{2}; 3\frac{1}{2}, 5\frac{1}{2}$
 - Heart and star
 - X plotted correctly
 - Square plotted correctly
 - Triangle plotted correctly
- Explanations will vary.

Lesson 3

Problem Set

- Constructions match directions.
- J, I, H, D
 - F, E, H, K
 - G $(2\frac{2}{3}, 3\frac{1}{3})$
 - K
 - M
 - K $(5\frac{1}{3}, 2\frac{2}{3})$, I $(3\frac{1}{3}, 1\frac{2}{3})$, B $(5\frac{2}{3}, 0)$, C $(0, 5\frac{1}{3})$
 - M, F, A, N
 - L
 - $(0, 0)$, origin
 - Points marked at given coordinate pairs
 - $\frac{8}{3}$ or $2\frac{2}{3}$
 - $\frac{7}{3}$ or $2\frac{1}{3}$
 - Less than
 - Explanations will vary.

Exit Ticket

- Constructions and point placement(s) match directions.

Homework

- Constructions match given parameters
- R, M, Q
 - O, M, L
 - Q
 - K
 - R
 - T $(2\frac{3}{5}, 2\frac{4}{5})$, U $(\frac{3}{5}, \frac{3}{5})$, S $(1, \frac{2}{5})$, K $(1\frac{1}{5}, 3\frac{2}{5})$
 - U, X, L, W
 - Point with equal x and y coordinates plotted
 - Origin, $(0, 0)$
 - Points plotted correctly
 - $\frac{4}{5}$
 - 1
 - Equal to
 - Explanations will vary.

Lesson 4

Problem Set

1. Students play Battleship.

Exit Ticket

1. a. Answers will vary.
b. Above $(2, 3)$, below $(2, 1)$

Homework

1. Answers will vary.
2. Explanations will vary.
3. Explanations will vary.

Lesson 5

Problem Set

- Line E drawn and labeled
 - x, y
 - Answers will vary.
 - $(3, 4); (11, 4)$; answers will vary.
 - Answers will vary.
 - Answers will vary.
- Points plotted correctly
 - Line drawn and labeled
 - $1\frac{1}{2}$
 - Perpendicular; parallel
 - Answers will vary.
- (b) circled; explanations will vary.
- (c) circled; answers will vary.
- x -values are all $5\frac{1}{2}$; y -values will vary.
 - x -values are all $5\frac{1}{2}$; y -values will vary.
 - x -values are all $5\frac{1}{2}$; y -values will vary.
- y -values are all 0; x -values will vary.
 - y -values are all 0; x -values will vary.
 - y -values are all 0; x -values will vary.
- Answers and explanations will vary.

Exit Ticket

- Answers will vary.
- y -axis; x -axis
- Answers will vary.
- A $(4, 6)$; B $(4, 3)$; points C and D will vary.
- Answers will vary.

Homework

1.
 - a. Line g drawn and labeled
 - b. x -axis, y -axis
 - c. Answers will vary.
 - d. A (4, 8); B (9, 8); points C and D will vary.
 - e. y -value
 - f. Answers will vary.
2. Points plotted correctly
 - a. Line f drawn and labeled
 - b. $\frac{3}{4}$
 - c. perpendicular, parallel
 - d. Answers will vary.
3. (a) circled; explanations will vary.
4. (b) circled; answers will vary.
5. Answers will vary.
6. Answers will vary.
7. Answers will vary.

Lesson 6

Problem Set

- Points plotted and labeled correctly
 - Lines drawn through given points
 - CD
 - AB
 - Answers will vary.
 - Answers will vary.
- $3\frac{1}{2}$
 - $(\frac{1}{2}, 3\frac{1}{2})$
 - Appropriate section shaded
 - $4\frac{1}{2}$
 - $(4\frac{1}{2}, 5)$
 - Appropriate section shaded
- Tasks completed on plane

Exit Ticket

- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.

Homework

- Points plotted and labeled correctly.
 - Lines drawn through given points
 - \overline{ST}
 - \overline{CA}
 - Answers will vary.
 - Answers will vary.
- $1\frac{1}{2}$
 - $(2, 1\frac{1}{2})$
 - Appropriate section shaded
 - $5\frac{1}{2}$
 - $(5\frac{1}{2}, 3\frac{1}{2})$
 - Appropriate section shaded
- (a–d) Lines constructed and labeled on plane
- (a–c) Tasks completed on plane

Lesson 7

Problem Set

- $(2, 3); (4, 5); (6, 7)$
 - Line drawn correctly
 - Answers will vary.
 - Answers will vary.
- $(\frac{1}{2}, 1), (1, 2), (1\frac{1}{2}, 3), (2, 4)$
 - Line drawn correctly
 - Answers will vary.
 - Answers will vary.
- Answers may vary.
 - Answers may vary.
 - Y-coordinates are the same
 - 6; 0; 30; 30; 36
 - 5
 - d, c or e, b, d, e

Exit Ticket

$(0, 4); (2, 6); (3, 7); (7, 11)$

- Line drawn correctly
- Answers will vary.
- Answers may vary.

Homework

- $(2, 0); (3\frac{1}{2}, 1\frac{1}{2}); (4\frac{1}{2}, 2\frac{1}{2}); (6, 4)$
 - Line drawn correctly
 - Answers will vary.
 - Answers may vary.
- $(0, 0); (\frac{1}{4}, \frac{3}{4}); (\frac{1}{2}, 1\frac{1}{2}); (1, 3)$
 - Line drawn correctly
 - Answers will vary.
 - Answers will vary.
- 10
 - Answers may vary.
 - Answers will vary.
 - Answers will vary.
 - $y = \frac{x}{2}$
 - $m; n; \ell; q$

Lesson 8

Sprint

Side A

- | | | | |
|-----------|----------|-----------|------------|
| 1. 623 | 12. 300 | 23. 4,100 | 34. 91.9 |
| 2. 6,230 | 13. 0.2 | 24. 7,600 | 35. 1,820 |
| 3. 62,300 | 14. 2 | 25. 10 | 36. 14,700 |
| 4. 736 | 15. 20 | 26. 70 | 37. 202.1 |
| 5. 7,360 | 16. 0.08 | 27. 7.2 | 38. 1,721 |
| 6. 73,600 | 17. 0.8 | 28. 8.02 | 39. 64 |
| 7. 6 | 18. 8 | 29. 19 | 40. 82 |
| 8. 0.6 | 19. 3.2 | 30. 7,412 | 41. 96 |
| 9. 0.06 | 20. 6.7 | 31. 680 | 42. 39 |
| 10. 3 | 21. 91 | 32. 49.01 | 43. 124.8 |
| 11. 30 | 22. 74 | 33. 1,607 | 44. 564.8 |

Side B

- | | | | |
|-----------|----------|-----------|------------|
| 1. 461 | 12. 900 | 23. 5,200 | 34. 81.8 |
| 2. 4,610 | 13. 0.4 | 24. 8,700 | 35. 2,930 |
| 3. 46,100 | 14. 4 | 25. 10 | 36. 25,800 |
| 4. 892 | 15. 40 | 26. 80 | 37. 303.2 |
| 5. 8,920 | 16. 0.07 | 27. 0.83 | 38. 2,831 |
| 6. 89,200 | 17. 0.7 | 28. 9.03 | 39. 42 |
| 7. 3 | 18. 7 | 29. 17 | 40. 66 |
| 8. 0.3 | 19. 4.5 | 30. 8,523 | 41. 93 |
| 9. 0.03 | 20. 7.8 | 31. 790 | 42. 36 |
| 10. 9 | 21. 28 | 32. 58.02 | 43. 84.4 |
| 11. 90 | 22. 19 | 33. 2,708 | 44. 524.4 |

Problem Set

1. Answers will vary.
 - a. Points accurately plotted
 - b. Accurate line drawn
 - c. Answers will vary.
2. Answers will vary.
 - a. Points accurately plotted
 - b. Accurate line drawn
 - c. Answers will vary.
3. Answers will vary.
 - a. Points accurately plotted
 - b. Accurate line drawn
 - c. Answers will vary.
4. a. Answers will vary.
 - b. Lines m and n ; $(0, 1)$
 - c. Lines m and ℓ
 - d. Answers will vary.

Exit Ticket

- 5, $(0, 5)$; 9, $(2, 9)$; 12, $(3.5, 12)$
- a. Points accurately plotted
 - b. Accurate line drawn
 - c. Answers will vary.

Homework

1. Answers will vary.
 - a. Points accurately plotted
 - b. Accurate line drawn
 - c. Answers will vary.
2. Answers will vary.
 - a. Points accurately plotted.
 - b. Accurate line drawn
 - c. Answers will vary.
3. Coordinates will vary.
 - a. Accurate lines drawn
 - b. Lines n and ℓ ; $(1, 1)$
 - c. Lines ℓ and m
 - d. Answers will vary.

Lesson 9

Problem Set

- a : 2, (1,2); 6, (5,6); 10, (9,10); 14, (13,14)
 b : 4, (0,4); 9, (5,9); 12, (8,12); 15, (11,15)
 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.
- e : 0, (0,0); 4, (2,4); 10, (5,10); 18, (9,18)
 f : 0, (0,0); 3, (6,3); 5, (10,5); 10, (20,10)
 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.

Exit Ticket

- l : 5, (0, 5); 6, (1, 6); 2, (2, 7); 9, (4, 9)
 m : 0, (0,0); 5, (1,5); 10, (2,10); 20, (4,20)

Homework

- a : 0, (1, 0); 3, (4, 3); 8, (9, 8); 15, (16, 15)
 b : 0, (5, 0); 3, (8, 3); 9, (14, 9); 15, (20, 15)
 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.
- e : 0, (0,0); 3, (1,3); 12, (4,12); 18, (6,18)
 f : 0, (0,0); 3, (1, (3, 1)); 3, (9,3); 5, (15,5)
 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.

Lesson 10

Problem Set

- Answer provided.
 - Accurate line drawn.
 - Answers will vary.
 - Answers will vary.
 - Accurate line drawn.
 - Answers will vary.
 - Answers will vary.
 - Answers will vary.
- Answers will vary.
- Answer provided.
 - Accurate line drawn.
 - Answers will vary.
 - Answers will vary.
 - Accurate line drawn.
 - Answers will vary.
 - Answers will vary.
 - Answers will vary.
 - Answers will vary.
- Add 5 to x and x plus $\frac{1}{2}$ circled.

Exit Ticket

- Answer provided.
- Accurate line drawn.
- Answers will vary.
- Answers will vary.

Homework

- Answer provided.
 - Accurate line drawn.
 - Answers will vary.
 - Answers will vary.
 - Accurate line drawn.
 - Answers will vary.
 - Answers will vary.
 - Answers will vary.
- Answers will vary.
- Use $y = x$
 - Accurate line drawn.
 - Answers will vary.
 - Answers will vary (e.g., y is x doubled).
 - Accurate line drawn.
 - Answers will vary.
 - Answers will vary (e.g., y is half of x).
 - Answers will vary.
 - Answers will vary.

Lesson 11

Sprint

Side A

- | | | | |
|--------|--------|--------|--------|
| 1. 3 | 12. 9 | 23. 13 | 34. 50 |
| 2. 3 | 13. 10 | 24. 17 | 35. 3 |
| 3. 3 | 14. 20 | 25. 17 | 36. 17 |
| 4. 3 | 15. 30 | 26. 12 | 37. 12 |
| 5. 4 | 16. 90 | 27. 11 | 38. 5 |
| 6. 4 | 17. 2 | 28. 13 | 39. 13 |
| 7. 4 | 18. 2 | 29. 14 | 40. 60 |
| 8. 14 | 19. 2 | 30. 16 | 41. 5 |
| 9. 13 | 20. 2 | 31. 15 | 42. 19 |
| 10. 14 | 21. 2 | 32. 6 | 43. 20 |
| 11. 8 | 22. 3 | 33. 8 | 44. 70 |

Side B

- | | | | |
|--------|--------|--------|--------|
| 1. 4 | 12. 9 | 23. 14 | 34. 40 |
| 2. 4 | 13. 10 | 24. 18 | 35. 4 |
| 3. 4 | 14. 20 | 25. 18 | 36. 18 |
| 4. 4 | 15. 30 | 26. 13 | 37. 13 |
| 5. 5 | 16. 80 | 27. 12 | 38. 6 |
| 6. 5 | 17. 3 | 28. 14 | 39. 14 |
| 7. 5 | 18. 3 | 29. 15 | 40. 50 |
| 8. 15 | 19. 3 | 30. 17 | 41. 6 |
| 9. 14 | 20. 3 | 31. 16 | 42. 19 |
| 10. 15 | 21. 3 | 32. 7 | 43. 20 |
| 11. 8 | 22. 4 | 33. 9 | 44. 60 |

Problem Set

- ℓ : 0, (0, 0); 2, (1, 2); 4, (2, 4); 6, (3, 6)
 m : 1, (0, 1); 3, (1, 3); 5, (2, 5); 7, (3, 7)

 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.
- (2, $1\frac{2}{3}$) and ($1\frac{1}{2}$, $1\frac{1}{2}$) circled

 - Answers will vary.
 - Answers will vary.
- ℓ : 0, (0, 0); $\frac{1}{2}$, ($1, \frac{1}{2}$); 1, (2, 1); $1\frac{1}{2}$, ($3, 1\frac{1}{2}$)
 m : $1\frac{1}{2}$, ($0, 1\frac{1}{2}$); 2, (1, 2); $2\frac{1}{2}$, ($2, 2\frac{1}{2}$); 3, (3, 3)

 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.
- (2, $\frac{1}{3}$) and (3, 1) circled

 - Answers will vary.
 - Answers will vary.

Exit Ticket

- ℓ : 0, (0, 0); 3, (1, 3); 6, (2, 6); 9, (3, 9)
 m : 1, (0, 1); 4, (1, 4); 7, (2, 7); 10, (3, 10)

 - Accurate lines drawn
 - Answers will vary.
- (1, $1\frac{1}{3}$) and (2, $1\frac{2}{3}$) circled

Homework

- ℓ : 2, (1, 2); 4, (2, 4); 6, (3, 6)
 m : 1, (1, 1); 3, (2, 3); 5, (3, 5)

 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.
- (2, 2) circled

 - Answers will vary.
 - Answers will vary.
- ℓ : 1, (0, 1); $1\frac{1}{2}$, ($1, 1\frac{1}{2}$); 2, (2, 2); $2\frac{1}{2}$, ($3, 2\frac{1}{2}$)
 m : $1\frac{1}{4}$, ($0, 1\frac{1}{4}$); $1\frac{3}{4}$, ($1, 1\frac{3}{4}$); $2\frac{1}{4}$, ($2, 2\frac{1}{4}$); $2\frac{3}{4}$, ($3, 2\frac{3}{4}$)

 - Accurate lines drawn
 - Answers will vary.
 - Answers will vary.
- (1, $\frac{1}{4}$) and ($3, 1\frac{3}{4}$) circled

 - Answers will vary.
 - Answers will vary.

Lesson 12

Sprint

Side A

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. 4 | 12. 8.139 | 23. 7.983 | 34. 6.122 |
| 2. 4.9 | 13. 0.04 | 24. 7.981 | 35. 9.342 |
| 3. 4.93 | 14. 0.047 | 25. 2.6 | 36. 8.047 |
| 4. 4.932 | 15. 1.047 | 26. 2.685 | 37. 9.107 |
| 5. 3.932 | 16. 1.847 | 27. 2.285 | 38. 6.87 |
| 6. 1.932 | 17. 1.837 | 28. 4.513 | 39. 4.548 |
| 7. 0.4 | 18. 1.817 | 29. 3.57 | 40. 6.348 |
| 8. 0.43 | 19. 0.004 | 30. 3.576 | 41. 6.528 |
| 9. 0.439 | 20. 7.004 | 31. 3.536 | 42. 6.546 |
| 10. 8.439 | 21. 7.904 | 32. 7.942 | 43. 6.136 |
| 11. 8.339 | 22. 7.984 | 33. 6.125 | 44. 9.513 |

Side B

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. 5 | 12. 8.239 | 23. 7.984 | 34. 7.123 |
| 2. 5.9 | 13. 0.05 | 24. 7.982 | 35. 1.453 |
| 3. 5.93 | 14. 0.057 | 25. 3.6 | 36. 8.057 |
| 4. 5.932 | 15. 1.057 | 26. 3.685 | 37. 1.207 |
| 5. 4.932 | 16. 1.857 | 27. 3.285 | 38. 7.98 |
| 6. 2.932 | 17. 1.847 | 28. 5.524 | 39. 5.548 |
| 7. 0.5 | 18. 1.827 | 29. 4.57 | 40. 7.348 |
| 8. 0.53 | 19. 0.005 | 30. 4.576 | 41. 7.528 |
| 9. 0.539 | 20. 7.005 | 31. 4.536 | 42. 7.546 |
| 10. 8.539 | 21. 7.905 | 32. 6.143 | 43. 7.137 |
| 11. 8.439 | 22. 7.985 | 33. 7.126 | 44. 1.623 |

Problem Set

1.
 - a. Answers will vary.
 - b. Answers will vary.
2.
 - a. Answers will vary.
 - b. Answers will vary.
3.
 - a. Answers will vary.
 - b. Answers will vary.
 - c. Answers will vary.
 - d. Answers will vary.
 - e. Answers will vary.
4. Answers will vary.
5.
 - a. Answers will vary.
 - b. Answers will vary.

Exit Ticket

- a. Answers will vary.
- b. Answers will vary.

Homework

1.
 - a. Answers will vary.
 - b. Answers will vary.
2.
 - a. Answers will vary.
 - b. Answers will vary.
3.
 - a. Answers will vary.
 - b. Answers will vary.
 - c. Answers will vary.
 - d. Answers will vary.
 - e. Answers will vary.
4. Answers will vary.

Lesson 13

Problem Set

- 4 sets of parallel lines drawn
- Five sets of parallel segments circled
- Parallel segment drawn through point S
 - Parallel segment drawn through point T
 - Parallel segment drawn through point U
 - Parallel segment drawn through point V
 - Parallel segment drawn through point W
 - Parallel segment drawn through point Z
- Parallel lines drawn

Exit Ticket

- Parallel segment drawn through point H
- Parallel segment drawn through point I
- Parallel segment drawn through point J

Homework

- 4 sets of parallel lines drawn
- Five sets of parallel segments circled
- Parallel segment drawn through point S
 - Parallel segment drawn through point T
 - Parallel segment drawn through point U
 - Parallel segment drawn through point V
 - Parallel segment drawn through point W
 - Parallel segment drawn through point Z
- Parallel lines drawn

Lesson 14

Problem Set

- $(6, 4); (11, 6)$
 - Accurate \overrightarrow{PR} drawn
 - Accurate coordinate pairs plotted
 - Accurate \overrightarrow{ST} drawn
 - $\overrightarrow{PR} \parallel \overrightarrow{ST}$ circled
 - Answers will vary.
 - Accurate \overrightarrow{UV} drawn
- $(1, 3\frac{1}{2}$ or 3.5); $(3, 1\frac{1}{2}$ or 1.5)
 - Accurate \overrightarrow{EF} drawn
 - Answers will vary.
 - Accurate \overrightarrow{LM} drawn
 - Explanations will vary.
 - Answers will vary.
 - Explanations will vary.

Exit Ticket

- $(2, 4); (5, 3)$.
- Accurate \overrightarrow{EF} drawn
- Answers will vary.
- Accurate \overrightarrow{LM} drawn

Homework

- $(6, 4); (3, 6)$
 - Accurate \overrightarrow{MN} drawn
 - Accurate coordinate pairs plotted
 - Accurate \overrightarrow{JK} drawn
 - $\overrightarrow{MN} \parallel \overrightarrow{JK}$ circled
 - Answers will vary.
 - Accurate \overrightarrow{FG} drawn
- $(4, 3\frac{1}{2}$ or 3.5); $(2, 3)$
 - Accurate \overrightarrow{AB} drawn
 - Answers will vary.
 - Accurate \overrightarrow{CD} drawn
 - Explanations will vary.
 - Answers will vary.
 - Explanations will vary.

Lesson 15

Problem Set

- 4 pairs circled
- Perpendicular lines drawn
- Perpendicular segment drawn
 - Perpendicular segment drawn
 - Perpendicular segment drawn
 - Perpendicular segment drawn
- Perpendicular lines drawn.

Exit Ticket

- Perpendicular segment drawn
- Perpendicular segment drawn
- Perpendicular segment drawn
- Perpendicular segment drawn

Homework

- 4 pairs circled
- Perpendicular lines drawn
- Perpendicular segment drawn
 - Perpendicular segment drawn
 - Perpendicular segment drawn
 - Perpendicular segment drawn
- Perpendicular lines drawn

Lesson 16

Problem Set

- \overline{AB} drawn
 - Point C plotted
 - \overline{AC} drawn
 - Explanations will vary.
 - Explanations will vary.
- \overline{QT} drawn
 - Point R plotted
 - \overline{QR} drawn
 - Explanations will vary.
 - x -coordinates: $2\frac{1}{2}$; y -coordinates: $1\frac{1}{2}$
 - x -coordinates: $1\frac{1}{2}$; y -coordinates: $2\frac{1}{2}$
 - Explanations will vary.
- Answers will vary.

Exit Ticket

- \overline{UV} drawn
- Point W plotted
- \overline{VW} drawn
- Explanations will vary.

Homework

- \overline{PQ} drawn
 - Point R plotted
 - \overline{PR} drawn
 - Explanations will vary.
 - x -coordinates: 4; y -coordinates: 1
 - x -coordinates: 1; y -coordinates: 4
 - Explanations will vary.
- \overline{BC} drawn
 - Point D plotted
 - \overline{BD} drawn
 - Explanations will vary.
 - x -coordinates: $1\frac{1}{2}$; y -coordinates: 1
 - x -coordinates: 1; y -coordinates: $1\frac{1}{2}$
 - Explanations will vary.
- Answers will vary.

Lesson 17

Problem Set

1. Symmetric figure drawn
2. Symmetric figure drawn
3.
 - a. Answers will vary.
 - b. \overline{DE} , \overline{EF} , \overrightarrow{DF} drawn
 - c. Answers will vary.
4. Explanations will vary.

Exit Ticket

1. Answers will vary.
2. Answers will vary.

Homework

1. Symmetric figure drawn
2. Symmetric figure drawn
3.
 - a. Answers will vary.
 - b. Accurate \overline{DE} , \overline{EF} , and \overrightarrow{DF} drawn
 - c. Answers will vary.
4. Explanations will vary.

Lesson 18

Problem Set

- Line drawn
 - Points plotted; line segments drawn
 - Symmetric figure drawn;
(0.1, 0.9); (0.2, 1.1); (0.3, 0.9); (0.5, 1.3);
(0.6, 1.2); (0.8, 1.2); (0.9, 1.3); (1.1, 0.9);
(1.2, 1.1); (1.3, 0.9)
 - Answers will vary.
 - Answers will vary.
- Vertical line drawn; x is always 0.7
- Line drawn.
 - Figures will vary.
 - Accurate coordinates recorded.
 - Answers will vary.
 - Chart completed
 - Answers will vary.

Exit Ticket

No; answers will vary.

Homework

- Line drawn
 - Points plotted; figure drawn
 - Symmetric figure drawn;
(9, 13); (9, 12); (8, 10); (6, 9); (6, 3);
(9, 2); (5, 2)
 - Answers will vary.
 - Answers will vary.
- Line drawn
 - Points plotted; figure drawn
 - Symmetric figure drawn;
 $(\frac{1}{2}, \frac{1}{2})$; (2, 1); $(1\frac{1}{2}, 1\frac{1}{2})$; (4, 2); $(3\frac{1}{2}, 3\frac{1}{2})$;
 $(4\frac{1}{2}, 4)$; (5, 5)
 - Answers will vary.
 - Answers will vary.

Lesson 19

Sprint (Note: Answers are given in unit form for ease of reading, but students may answer in standard form.)

Side A

- | | | | |
|-------------|--------------|---------------|---------------|
| 1. 1 half | 12. 1 fourth | 23. 1 third | 34. 5 sixths |
| 2. 1 third | 13. 2 thirds | 24. 1 seventh | 35. 4 fifths |
| 3. 1 fourth | 14. 1 half | 25. 2 thirds | 36. 4 fifths |
| 4. 1 half | 15. 1 third | 26. 1 half | 37. 4 fifths |
| 5. 1 third | 16. 1 fifth | 27. 1 third | 38. 2 thirds |
| 6. 1 fourth | 17. 2 thirds | 28. 1 eighth | 39. 3 fourths |
| 7. 1 half | 18. 1 half | 29. 2 thirds | 40. 4 fifths |
| 8. 1 third | 19. 1 third | 30. 3 fourths | 41. 5 sixths |
| 9. 1 fourth | 20. 1 sixth | 31. 3 fourths | 42. 2 thirds |
| 10. 1 half | 21. 2 thirds | 32. 3 fourths | 43. 5 sixths |
| 11. 1 third | 22. 1 half | 33. 5 sixths | 44. 4 fifths |

Side B

- | | | | |
|-------------|--------------|---------------|---------------|
| 1. 1 half | 12. 1 fourth | 23. 1 third | 34. 4 fifths |
| 2. 1 third | 13. 2 thirds | 24. 1 seventh | 35. 4 fifths |
| 3. 1 fourth | 14. 1 half | 25. 2 thirds | 36. 5 sixths |
| 4. 1 half | 15. 1 third | 26. 1 half | 37. 5 sixths |
| 5. 1 third | 16. 1 fifth | 27. 1 third | 38. 2 thirds |
| 6. 1 fourth | 17. 2 thirds | 28. 1 eighth | 39. 3 fourths |
| 7. 1 half | 18. 1 half | 29. 2 thirds | 40. 4 fifths |
| 8. 1 third | 19. 1 third | 30. 3 fourths | 41. 5 sixths |
| 9. 1 fourth | 20. 1 sixth | 31. 3 fourths | 42. 2 thirds |
| 10. 1 half | 21. 2 thirds | 32. 3 fourths | 43. 4 fifths |
| 11. 1 third | 22. 1 half | 33. 4 fifths | 44. 5 sixths |

Problem Set

1.
 - a. $2\frac{1}{4}$ inches
 - b. 2:30–3:00; answers will vary.
 - c. 4:30–5:00; answers will vary.
 - d. Answers will vary.
 - e. 9 inches
2.
 - a. January
 - b. July; answers will vary.
 - c. May; answers will vary.
 - d. 35.5 gallons
 - e. \$188.51

Exit Ticket

- a. 4 feet
- b. Week 2
- c. Weeks 1 and 2; answers will vary.
- d. Answers will vary.

Homework

1.
 - a. \$1,250
 - b. ~\$875
 - c. Answers will vary.
 - d. May 16; answers will vary.
 - e. May 18; answers will vary.
2.
 - a. 1 hour 50 minutes
 - b. 5 km
 - c. ~1:15–1:17 and ~2:14–2:20; answers will vary.
 - d. Swimming portion; answers will vary.
 - e. Biking portion; line is steepest at bike race

Lesson 20

Sprint (Note: Answers are given in unit form for ease of reading, but students may write answers in standard form.)

Side A

- | | | | |
|---------------------|---------------------|----------------------|----------------------|
| 1. 3 and 1 half | 12. 2 and 1 fourth | 23. 2 and 7 eighths | 34. 1 and 3 eighths |
| 2. 2 and 1 half | 13. 2 and 3 fourths | 24. 2 and 5 eighths | 35. 2 and 7 tenths |
| 3. 1 and 1 half | 14. 3 and 1 fourth | 25. 2 and 3 eighths | 36. 3 and 3 fifths |
| 4. 1 half | 15. 1 and 9 tenths | 26. 2 and 1 eighth | 37. 3 and 4 sevenths |
| 5. 2 thirds | 16. 2 and 1 tenth | 27. 1 and 1 eighth | 38. 2 and 3 tenths |
| 6. 1 and 2 thirds | 17. 1 and 3 tenths | 28. 3 and 6 sevenths | 39. 2 and 1 half |
| 7. 3 and 2 thirds | 18. 3 and 7 tenths | 29. 2 and 1 seventh | 40. 3 and 3 fourths |
| 8. 3 and 1 third | 19. 2 and 4 fifths | 30. 1 and 4 sevenths | 41. 1 and 1 fourth |
| 9. 1 and 1 third | 20. 2 and 3 fifths | 31. 3 and 3 sevenths | 42. 3 and 5 sixths |
| 10. 1 and 3 fourths | 21. 2 and 1 fifth | 32. 2 and 2 sevenths | 43. 2 and 2 thirds |
| 11. 1 and 1 fourth | 22. 2 and 2 fifths | 33. 3 and 1 fourth | 44. 1 and 1 third |

Side B

- | | | | |
|--------------------|--------------------|----------------------|----------------------|
| 1. 1 half | 12. 2 and 1 third | 23. 1 and 7 eighths | 34. 3 and 3 eighths |
| 2. 1 and 1 half | 13. 2 and 2 thirds | 24. 1 and 5 eighths | 35. 1 and 7 tenths |
| 3. 2 and 1 half | 14. 3 and 1 third | 25. 1 and 3 eighths | 36. 2 and 3 fifths |
| 4. 3 and 1 half | 15. 2 and 9 tenths | 26. 1 and 1 eighth | 37. 2 and 4 sevenths |
| 5. 3 fourths | 16. 1 and 1 tenth | 27. 3 and 1 eighth | 38. 1 and 3 tenths |
| 6. 1 and 3 fourths | 17. 3 and 3 tenths | 28. 2 and 6 sevenths | 39. 1 and 1 half |
| 7. 3 and 3 fourths | 18. 2 and 7 tenths | 29. 1 and 1 seventh | 40. 2 and 1 fourth |
| 8. 3 and 1 fourth | 19. 1 and 4 fifths | 30. 3 and 4 sevenths | 41. 3 and 3 fourths |
| 9. 1 and 1 fourth | 20. 1 and 3 fifths | 31. 2 and 3 sevenths | 42. 2 and 1 sixth |
| 10. 1 and 2 thirds | 21. 1 and 1 fifth | 32. 1 and 2 sevenths | 43. 1 and 1 third |
| 11. 1 and 1 third | 22. 2 and 2 fifths | 33. 2 and 1 fourth | 44. 3 and 2 thirds |

Problem Set

1.
 - a. 10 lb
 - b. 6 lb
 - c. Week 9; Week 11; answers will vary.
 - d. Answers will vary.
2.
 - a. 12
 - b. 2008–2009
 - c. 2019

Exit Ticket

- a. 8 dozen; answers will vary.
- b. Saturday and Sunday; answers will vary.
- c. Friday, Saturday, Sunday
- d. 23 doz

Homework

- a. 16 km; 5 hr
- b. 9 a.m.; answers will vary.
- c. Before; answers will vary.
- d. 7 a.m.–8 a.m. and 10 a.m.–11 a.m.
- e. 8 a.m.–9 a.m.; answers will vary.

Lesson 21

Problem Set

- 13 in; 169 in^2 ; 84.5 in^2
- Necklace: \$85; scarf: \$51; notebook: \$8.50;
\$76.50
- Both rooms green: \$2,607.75;
den green, dining room brown: \$2,636.55
- 16 miles
- Pumpkins 7.5 lb; squash 2.5 lb
- 75 trucks
- $\frac{12}{19}$
- 8 scoops
- $47 \frac{61}{64} \text{ in}^2$
 - $143 \frac{55}{64} \text{ in}^2$
 - $\frac{1}{3}$

Homework

- Sara: 148 miles; Eli: 74 miles; Ashley: 222 miles; Hazel: 444 miles
- Answers will vary.

Lesson 22

Problem Set

See Lesson 21 Answer Key.

Homework

1. Answer provided.
9 ft²
4 ft²
Answer provided.
1 ft²
Answer provided.
25 ft²
16 ft²
4 ft²
9 ft²
16 ft²
2. Answers will vary.

Lesson 23

Sprint (Note: Answers are shown here in unit form for ease of reading, but students may answer in standard form.)

Side A

- | | | | |
|---------------|----------------|----------------|-----------------|
| 1. 6 fifths | 12. 9 fourths | 23. 27 tenths | 34. 33 eighths |
| 2. 11 fifths | 13. 11 fourths | 24. 49 tenths | 35. 35 eighths |
| 3. 16 fifths | 14. 13 fourths | 25. 9 eighths | 36. 39 eighths |
| 4. 21 fifths | 15. 15 fourths | 26. 11 sixths | 37. 17 twelfths |
| 5. 5 fourths | 16. 13 thirds | 27. 29 sixths | 38. 19 twelfths |
| 6. 7 fourths | 17. 14 thirds | 28. 37 eighths | 39. 25 twelfths |
| 7. 7 fifths | 18. 13 fifths | 29. 13 eighths | 40. 37 twelfths |
| 8. 8 fifths | 19. 18 fifths | 30. 19 eighths | 41. 31 twelfths |
| 9. 9 fifths | 20. 23 fifths | 31. 33 tenths | 42. 41 twelfths |
| 10. 14 fifths | 21. 13 sixths | 32. 47 tenths | 43. 47 twelfths |
| 11. 19 fifths | 22. 25 eighths | 33. 24 fifths | 44. 55 twelfths |

Side B

- | | | | |
|---------------|----------------|----------------|-----------------|
| 1. 3 halves | 12. 7 thirds | 23. 23 tenths | 34. 23 eighths |
| 2. 5 halves | 13. 8 thirds | 24. 31 tenths | 35. 31 eighths |
| 3. 7 halves | 14. 10 thirds | 25. 7 sixths | 36. 25 sixths |
| 4. 9 halves | 15. 11 thirds | 26. 11 eighths | 37. 13 twelfths |
| 5. 4 thirds | 16. 17 fourths | 27. 23 sixths | 38. 23 twelfths |
| 6. 5 thirds | 17. 19 fourths | 28. 29 eighths | 39. 49 twelfths |
| 7. 13 tenths | 18. 12 fifths | 29. 21 eighths | 40. 29 twelfths |
| 8. 17 tenths | 19. 17 fifths | 30. 15 eighths | 41. 35 twelfths |
| 9. 19 tenths | 20. 22 fifths | 31. 43 tenths | 42. 43 twelfths |
| 10. 29 tenths | 21. 19 sixths | 32. 37 tenths | 43. 53 twelfths |
| 11. 39 tenths | 22. 17 eighths | 33. 17 sixths | 44. 59 twelfths |

Problem Set

See Lesson 21 Answer Key.

Homework

1. $P = 147$ cm
2. Answers will vary.
3. Answers will vary.

Lesson 24

Problem Set

See Lesson 21 Answer Key.

Homework

1. 14 bags
2. Answers will vary. (*Hint: Think three-dimensionally.*)
3. Answers will vary.

Lesson 25

Problem Set

See Lesson 21 Answer Key.

Homework

1. Fred: 48 flowers; Ethyl: 84 flowers
2. Answers will vary.
3. Answers will vary

Lesson 26

Problem Set

- Expressions will vary; $11\frac{2}{5}$
 - Expressions will vary; $7\frac{2}{3}$
 - Expressions will vary; $28\frac{4}{5}$
 - Expressions will vary; 9
- Expressions will vary; $5\frac{1}{3}$
 - Expressions will vary; 6
- $>$; explanations will vary.
 - $>$; explanations will vary.
 - $<$; explanations will vary.

Reflection

Answers will vary.

Homework

- Expressions will vary; 4,000
 - Expressions will vary; $87\frac{1}{2}$
 - Expressions will vary; 5
 - Expressions will vary; $\frac{5}{48}$
- Expressions will vary; $4\frac{1}{5}$
 - Expressions will vary; $5\frac{1}{3}$
- $<$; explanations will vary.
 - $=$; explanations will vary.
 - $<$; explanations will vary.

Lesson 27

Problem Set

- Model drawn; 15 minutes
 - Model drawn; 24 marbles
- Word problems will vary; 12
Word problems will vary; 50
Word problems will vary; $6\frac{1}{12}$

Reflection

- Answers will vary.

Homework

- Model drawn; 9 students
 - Model drawn; 8 apples
- Word problems will vary; 84
Word problems will vary; $8\frac{2}{9}$
Word problems will vary; 36

Lesson 28

Problem Set

Answers will vary.

Reflection

Answers will vary.

Homework

Answers will vary.

Lesson 29

Sprint (Note: Answers are given here in unit form for ease of reading, but students may answer in standard form.)

Side A

- | | | | |
|--------------------|--------------------|--------------------|--------------------|
| 1. 6 | 12. 15 hundredths | 23. 1 and 2 tenths | 34. 21 |
| 2. 6 tenths | 13. 14 | 24. 12 hundredths | 35. 24 hundredths |
| 3. 6 hundredths | 14. 1 and 4 tenths | 25. 12 thousandths | 36. 24 |
| 4. 9 | 15. 14 hundredths | 26. 12 thousandths | 37. 4 and 2 tenths |
| 5. 9 tenths | 16. 12 | 27. 35 | 38. 49 hundredths |
| 6. 9 hundredths | 17. 1 and 2 tenths | 28. 3 and 5 tenths | 39. 48 thousandths |
| 7. 8 | 18. 12 hundredths | 29. 35 hundredths | 40. 54 thousandths |
| 8. 8 tenths | 19. 12 hundredths | 30. 35 thousandths | 41. 4 and 8 tenths |
| 9. 8 hundredths | 20. 12 thousandths | 31. 35 thousandths | 42. 63 hundredths |
| 10. 15 | 21. 12 thousandths | 32. 16 | 43. 64 thousandths |
| 11. 1 and 5 tenths | 22. 12 | 33. 1 and 8 tenths | 44. 72 thousandths |

Side B

- | | | | |
|--------------------|--------------------|--------------------|--------------------|
| 1. 8 | 12. 12 hundredths | 23. 1 and 6 tenths | 34. 24 |
| 2. 8 tenths | 13. 18 | 24. 16 hundredths | 35. 27 hundredths |
| 3. 8 hundredths | 14. 1 and 8 tenths | 25. 16 thousandths | 36. 32 |
| 4. 6 | 15. 18 hundredths | 26. 16 thousandths | 37. 4 and 2 tenths |
| 5. 6 tenths | 16. 15 | 27. 45 | 38. 36 hundredths |
| 6. 6 hundredths | 17. 1 and 5 tenths | 28. 4 and 5 tenths | 39. 48 thousandths |
| 7. 9 | 18. 15 tenths | 29. 45 hundredths | 40. 54 thousandths |
| 8. 9 tenths | 19. 15 hundredths | 30. 45 thousandths | 41. 4 and 8 tenths |
| 9. 9 hundredths | 20. 15 thousandths | 31. 45 thousandths | 42. 63 hundredths |
| 10. 12 | 21. 15 thousandths | 32. 12 | 43. 49 thousandths |
| 11. 1 and 2 tenths | 22. 16 | 33. 1 and 4 tenths | 44. 72 thousandths |

Problem Set

Vocabulary definitions and terms are used to play Math Pictionary.

Reflection

Answers will vary.

Homework

1.
 - a. Quadrilateral, trapezoid; answers will vary.
 - b. Quadrilateral; answers will vary.
 - c. Quadrilateral, trapezoid, parallelogram; answers will vary.
 - d. Quadrilateral, trapezoid, parallelogram, rhombus, kite; answers will vary.
2.
 - a. Figure drawn
 - b. Quadrilateral, trapezoid, parallelogram, rhombus, kite; answers will vary.
 - c. Quadrilateral, trapezoid, parallelogram, rhombus, kite; answers will vary.

Lesson 30

Problem Set

Game direction cards

Reflection

Answers will vary.

Homework

Answers will vary.

Lesson 31

Problem Set

Spiral drawn

Reflection

Answers will vary.

Homework

1. Spiral drawn
2. Answers will vary.
3. 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377

Lesson 32

Problem Set

1.	Week	Add	Total	Week	Add	Total
	1	Answer provided	Answer provided	27	\$27	\$378
	2	Answer provided	Answer provided	28	\$28	\$406
	3	Answer provided	Answer provided	29	\$29	\$435
	4	Answer provided	Answer provided	30	\$30	\$465
	5	\$5	\$15	31	\$31	\$496
	6	\$6	\$21	32	\$32	\$528
	7	\$7	\$28	33	\$33	\$561
	8	\$8	\$36	34	\$34	\$595
	9	\$9	\$45	35	\$35	\$630
	10	\$10	\$55	36	\$36	\$666
	11	\$11	\$66	37	\$37	\$703
	12	\$12	\$78	38	\$38	\$741
	13	\$13	\$91	39	\$39	\$780
	14	\$14	\$105	40	\$40	\$820
	15	\$15	\$120	41	\$41	\$861
	16	\$16	\$136	42	\$42	\$903
	17	\$17	\$153	43	\$43	\$946
	18	\$18	\$171	44	\$44	\$990
	19	\$19	\$190	45	\$45	\$1,035
	20	\$20	\$210	46	\$46	\$1,081
	21	\$21	\$231	47	\$47	\$1,128
	22	\$22	\$253	48	\$48	\$1,176
	23	\$23	\$276	49	\$49	\$1,225
	24	\$24	\$300	50	\$50	\$1,275
	25	\$25	\$325	51	\$51	\$1,326
	26	\$26	\$351	52	\$52	\$1,378

2.	Week	Add	Total	Week	Add	Total
	1	Answer provided	Answer provided	27	\$6.75	\$94.50
	2	Answer provided	Answer provided	28	\$7.00	\$101.50
	3	Answer provided	Answer provided	29	\$7.25	\$108.75
	4	Answer provided	Answer provided	30	\$7.50	\$116.25
	5	\$1.25	\$3.75	31	\$7.75	\$124.00
	6	\$1.5	\$5.25	32	\$8.00	\$132.00
	7	\$1.75	\$7.00	33	\$8.25	\$140.25
	8	\$2.00	\$9.00	34	\$8.50	\$148.75
	9	\$2.25	\$11.25	35	\$8.75	\$157.50
	10	\$2.50	\$13.75	36	\$9.00	\$166.50
	11	\$2.75	\$16.50	37	\$9.25	\$175.75
	12	\$3.00	\$19.50	38	\$9.50	\$185.25
	13	\$3.25	\$22.75	39	\$9.75	\$195.00
	14	\$3.50	\$26.25	40	\$10.00	\$205.00
	15	\$3.75	\$30.00	41	\$10.25	\$215.25
	16	\$4.00	\$34.00	42	\$10.50	\$225.75
	17	\$4.25	\$38.25	43	\$10.75	\$236.50
	18	\$4.50	\$42.75	44	\$11.00	\$247.50
	19	\$4.75	\$47.50	45	\$11.25	\$258.75
	20	\$5.00	\$52.50	46	\$11.50	\$270.25
	21	\$5.25	\$57.75	47	\$11.75	\$282.00
	22	\$5.50	\$63.25	48	\$12.00	\$294.00
	23	\$5.75	\$69.00	49	\$12.25	\$306.25
	24	\$6.00	\$75.00	50	\$12.50	\$318.75
	25	\$6.25	\$81.25	51	\$12.75	\$331.50
	26	\$6.50	\$87.75	52	\$13.00	\$344.50

3.	Week	Add	Total	Week	Add	Total
	1	Answer provided	Answer provided	27	\$196,418	\$514,228
	2	Answer provided	Answer provided	28	\$317,811	\$832,039
	3	Answer provided	Answer provided	29	\$514,229	\$1,346,268
	4	Answer provided	Answer provided	30	\$832,040	\$2,178,308
	5	\$5	\$12	31	\$1,346,269	\$3,524,577
	6	\$8	\$20	32	\$2,178,309	\$5,702,886
	7	\$13	\$33	33	\$3,524,578	\$9,227,464
	8	\$21	\$54	34	\$5,702,887	\$14,930,351
	9	\$34	\$88	35	\$9,227,465	\$24,157,816
	10	\$55	\$143	36	\$14,930,352	\$39,088,168
	11	\$89	\$232	37	\$24,157,817	\$63,245,985
	12	\$144	\$376	38	\$39,088,169	\$102,334,154
	13	\$233	\$609	39	\$63,245,986	\$165,580,140
	14	\$377	\$986	40	\$102,334,155	\$267,914,295
	15	\$610	\$1,596	41	\$165,580,141	\$433,494,436
	16	\$987	\$2,583	42	\$267,914,296	\$701,408,732
	17	\$1,597	\$4,180	43	\$433,494,437	\$1,134,903,169
	18	\$2,584	\$6,764	44	\$701,408,733	\$1,836,311,902
	19	\$4,181	\$10,945	45	\$1,134,903,170	\$2,971,215,072
	20	\$6,765	\$17,710	46	\$1,836,311,903	\$4,807,526,975
	21	\$10,946	\$28,656	47	\$2,971,215,073	\$7,778,742,048
	22	\$17,711	\$46,367	48	\$4,807,526,976	\$12,586,269,024
	23	\$28,657	\$75,024	49	\$7,778,742,049	\$20,365,011,073
	24	\$46,368	\$121,392	50	\$12,586,269,025	\$32,951,280,098
	25	\$75,025	\$196,417	51	\$20,365,011,074	\$53,316,291,172
	26	\$121,393	\$317,810	52	\$32,951,280,099	\$86,267,571,271

Reflection

Answers will vary.

Homework

1. 13; 21; 34; 55; 89; 144; 233; 377; 610; 987; 1,597; 2,584; 4,181; 6,765
2. Jonas was correct; examples will vary.
3. Answers will vary.

Lesson 33

Sprint

Side A

- | | | | |
|---------|----------|----------|----------|
| 1. 1 | 12. 1000 | 23. 50 | 34. 325 |
| 2. 10 | 13. 2000 | 24. 5 | 35. 5 |
| 3. 20 | 14. 8000 | 25. 0.5 | 36. 5 |
| 4. 70 | 15. 10 | 26. 0.8 | 37. 50 |
| 5. 10 | 16. 100 | 27. 400 | 38. 90 |
| 6. 100 | 17. 200 | 28. 4000 | 39. 400 |
| 7. 200 | 18. 900 | 29. 4700 | 40. 80 |
| 8. 600 | 19. 500 | 30. 5900 | 41. 70 |
| 9. 1 | 20. 5000 | 31. 30 | 42. 40 |
| 10. 10 | 21. 6000 | 32. 300 | 43. 12.1 |
| 11. 100 | 22. 2000 | 33. 320 | 44. 321 |

Side B

- | | | | |
|---------|----------|----------|----------|
| 1. 10 | 12. 1000 | 23. 40 | 34. 236 |
| 2. 10 | 13. 2000 | 24. 4 | 35. 3 |
| 3. 20 | 14. 9000 | 25. 0.4 | 36. 3 |
| 4. 80 | 15. 10 | 26. 0.7 | 37. 30 |
| 5. 10 | 16. 100 | 27. 500 | 38. 80 |
| 6. 100 | 17. 200 | 28. 5000 | 39. 400 |
| 7. 200 | 18. 700 | 29. 5300 | 40. 70 |
| 8. 700 | 19. 400 | 30. 6800 | 41. 80 |
| 9. 1 | 20. 4000 | 31. 20 | 42. 30 |
| 10. 10 | 21. 5000 | 32. 200 | 43. 12.1 |
| 11. 100 | 22. 8000 | 33. 230 | 44. 211 |

Problem Set

Box 1: $19 \text{ cm} \times 13 \text{ cm} \times 4 \text{ cm}$; 988 cm^2

Box 2: Answers will vary.

Lid: Answers will vary.

1. Answers will vary.

2. Answers will vary.

3. Answers will vary.

Reflection

Answers will vary.

Homework

1. 110 cm^3 ; answers will vary.

2. Answers will vary; $V = 616 \text{ cm}^3$

Lesson 34

Problem Set

Answers will vary.

Reflection

Answers will vary.