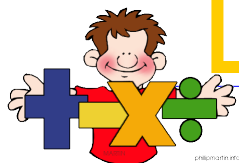


Math Connections



Math Course 3—Week 1 Answers

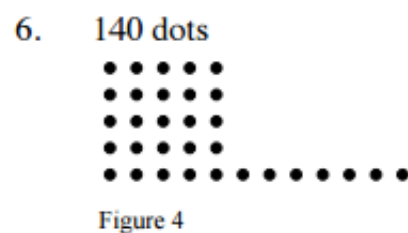
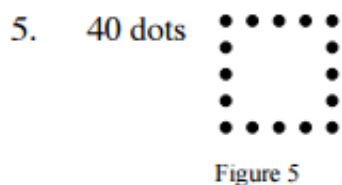
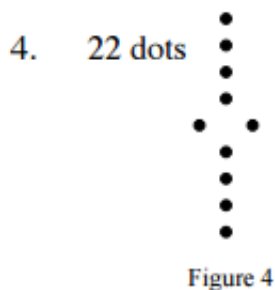
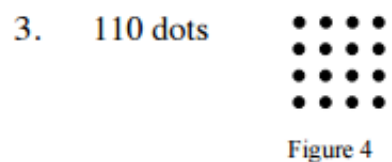
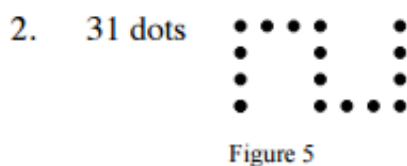
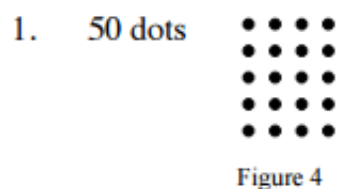
Diamond Problems 1.1.1 Answers

Answers

- | | | | |
|--|---|-------------------------------------|-------------------------------------|
| 1. -32 and -4 | 2. -4 and -6 | 3. -6 and 6 | 4. 6 and -1 |
| 5. 4.56 and 5 | 6. 5 and 40.5 | 7. 3.4 and 11.56 | 8. 3 and 6.2 |
| 9. $-\frac{1}{14}$ and $-\frac{5}{14}$ | 10. $\frac{13}{10}$ and $\frac{13}{50}$ | 11. $\frac{1}{2}$ and $\frac{7}{5}$ | 12. $\frac{1}{3}$ and $\frac{1}{3}$ |
| 13. xy and $x + y$ | 14. a and $2a$ | 15. $-6b$ and $-48b^2$ | 16. $4a$ and $12a^2$ |

Describing And Extending Patterns 1.1.2 Answers

Answers

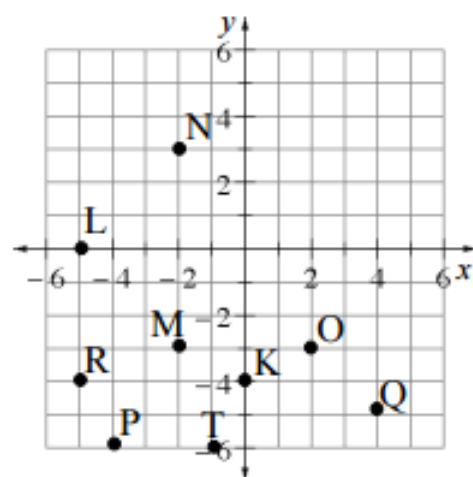


Four - Quadrant Graphing 1.1.2 and 1.1.3 Answers

Answers

- $S(2, 2)$
 $T(-1, -6)$
 $U(0, 6)$
 $V(1, -4)$
 $W(-6, 0)$
 $Z(-5, 3)$

2.



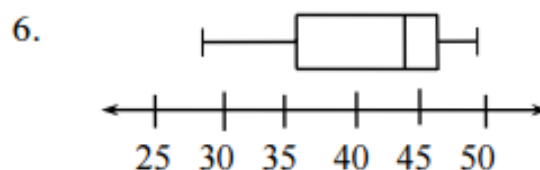
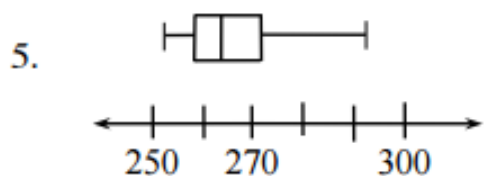
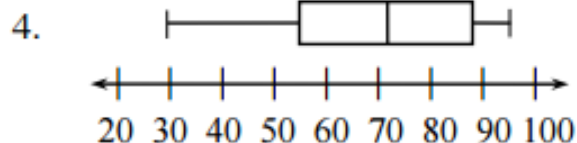
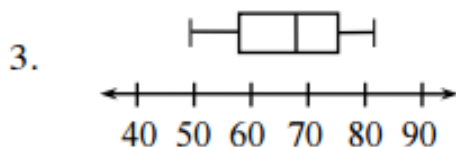
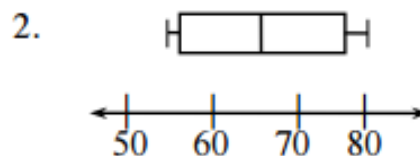
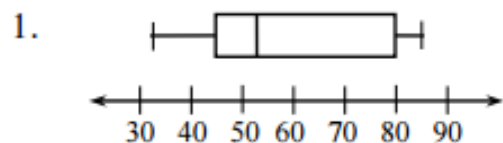
Writing Equations Word Problems (The 5 - D Process 1.1.3 Answers)

Answers (Equations may vary.)

- $x + (x + 26) = 100$
The lengths of the boards are 37 cm and 63 cm.
- $x + (x + 5) = 51$
Thu is 28 years old and her brother is 23 years old.
- $3x - 13 = 305$
Tomás is thinking of the number 106.
- $x + (x + 1) = 123$
The two consecutive numbers are 61 and 62.
- $x + (x + 2) = 246$
The two consecutive even numbers are 122 and 124.
- $x + (x + 6) + 3(x + 6) = 149$
Christine is 25, Aaron is 31, and Joe is 93 years old.
- $2x + 4(38 - x) = 116$
Farmer Fran has 20 goats and 18 chickens.
- $x + (x + 15) + (x + 15) = 156$
The lengths of the boards are 42, 57, and 57 cm.
- $0.05x + 0.10(15 - x) = 0.90$
Juan has 12 nickels and 3 dimes.
- $\$5x + \$3.50(x + 100) = 2517.50$
There were 255 adult and 355 student tickets purchased for the play.
- $3x + 2(x + 15) = 250$
The lengths of the boards are 44 and 59 cm.
- $0.05x + 0.25x + 0.10(3x) = 9.60$
Conrad has 16 quarters, 16 nickels, and 48 dimes.

Graphical Representations Of Data 1.1.4 Answers

Answers



Proportional Relationships 1.2.1 and 1.2.2 Answers

Answers

1. $43 \frac{\text{words}}{\text{minute}}$

2. $3 \frac{\text{pages}}{\text{minute}}$

3. $2.89 \frac{\$}{\text{box}}$

4. $2.45 \frac{\text{points}}{\text{minute}}$

5. $0.84 \frac{\$}{\text{pound}}$

6. $3.38 \frac{\$}{\text{pound}}$

7. $2 \frac{\text{acre}}{\text{hour}}$

8. $2.29 \frac{\$}{\text{pound}}$

9. $\frac{2}{5} \frac{\text{grams}}{\text{centimeter}}$

10. $\approx 27 \frac{\text{miles}}{\text{hour}}$

11. \$10.69

12. 24.5 min.

13. 19.2 hours

14. \$153

15. 22.5 hours

16. $\frac{8}{9}$ cup

17. \$175

18. $4\frac{2}{3}$ inches

19. ≈ 5.36 miles

20. $9\frac{1}{3}$ cans

21. $3\frac{3}{8}$ hours

22. $g = \frac{5}{2}t$

23. $s = \frac{3}{4}x$

24. $t = 0.09c$

25. $C = 3.5b$

Algebra Tiles And Perimeter 2.1.1 and 2.1.2 Answers

Answers

1. $4x + 4$ un.

2. $4x + 4$ un.

3. $2x + 8$ un.

4. $4x + 6$ un.

5. $4x + 4$ un.

6. $4x + 2$ un.

7. $4x + 4$ un.

8. $2x + 4$ un.

Combining Like Terms 2.1.2 and 2.1.3 Answers

Answers

1. $6x^2 + 8x + 13$
2. $4x^2 + 5x + 11$
3. $12x^2 + 5x + 7$
4. $x^2 + 4x + 1$
5. $6x^2 - 9x - 2$
6. $2x^2 - 10x + 9$
7. $-5x^2 + 11x + 4$
8. $7x + 2$
9. $-c^2 + 4c + x - 3$
10. $3a^3 - 2a^2 + 2a + 14$