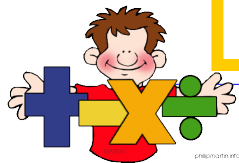


Math Connections



Math Course 3—Week 5 Answers

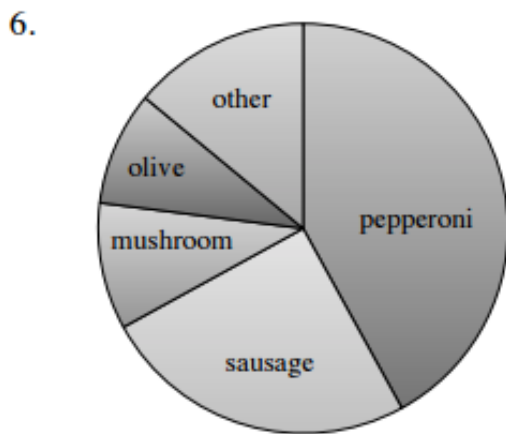
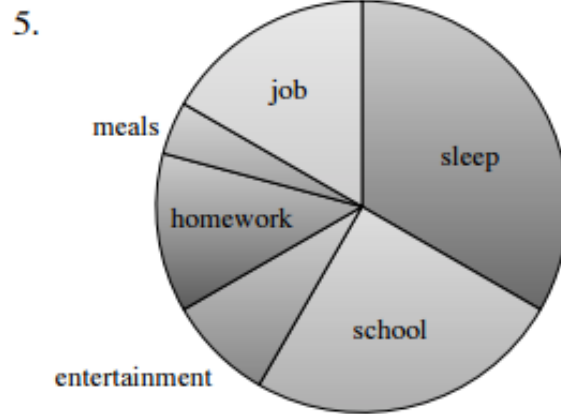
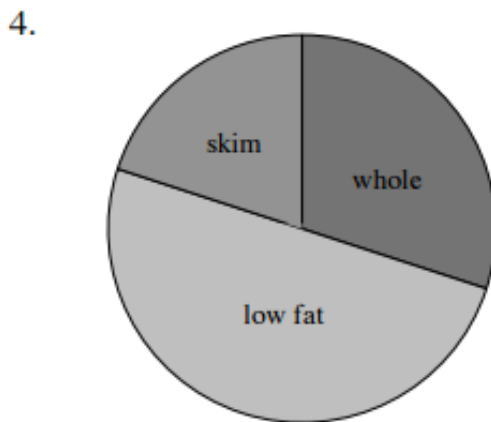
Circle Graphs 7.1.1 Answers

- Answers:** a. pizza is the largest sector; b. $\frac{1}{4} \cdot 800 = 200$;
c. hamburger and chicken tacos have the same size sectors

Circle Graphs 7.1.1 Answers

Answers

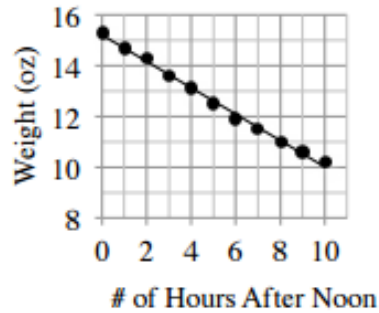
1. Alicia
2. No, Alicia's sector is less than half of a circle.
3. Approximately 240 votes.



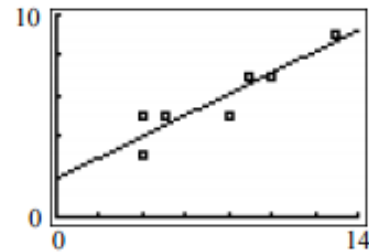
Scatterplots, Association, And Line Of Best Fit 7.1.2 - 7.1.3 Answers

Answers

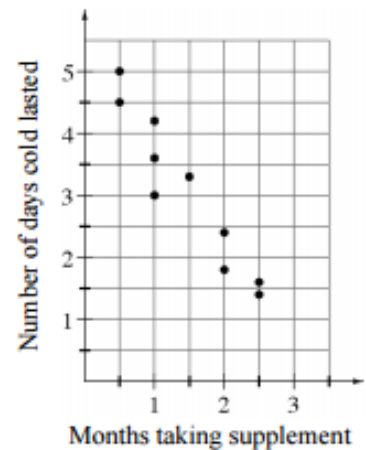
1. Moderate, positive, linear association with no outliers.
2. Strong, negative, linear association with an outlier.
3. No association
4. Strong, positive, curved association.
5. $y = -\frac{1}{2}x + 15.3$



6. Strong, positive linear association and no outliers
 $y = \frac{1}{2}x + 2$ 5 robins



7. a. The form is linear, the direction is negative, the strength is moderate, and there are no apparent outliers.
- b. $y \approx -\frac{5}{3}x + 5$
- c. $-\frac{5}{3}(\frac{3}{2}) + 5 = 2\frac{1}{2}$ days



Slope 7.2.2 - 7.2.4 Answers

Answers

1. $\frac{3}{2}$ 2. $\frac{1}{2}$ 3. -2 4. $-\frac{3}{4}$ 5. 0
6. $-\frac{2}{5}$ 7. $-\frac{1}{2}$ 8. $\frac{3}{4}$ 9. -2

Simple And Compound Interest 8.1.1 - 8.1.3 Answers

Answers

1. $I = 50(0.05)1 = \$2.50$; Jody paid back \$52.50.
2. $I = 2000(0.075)4 = \$600$
3. $I = \$500(0.0875)5 = \218.75
4. $\$1012.50 = x(0.045)15$; $x = \$1500$
5. $I = 125(0.035)1 = \$4.38$
6. $A = 125(1 + 0.028)^1 = \$128.50$; No, for one year she needs to take the higher interest rate if the compounding is done annually. Only after one year will compounding earn more than simple interest.
7. $A = 2000(1 + 0.0325)^4 = \2272.95
8. $A = 4250(1 + 0.044)^7 = \5745.03
9. $A = 2500(1 + 0.032)^5 - 2500(1 + 0.029)^5 = \$2926.43 - \$2884.14 = \42.29
10. $A = 2000(1 + 0.028)^{180}$ (because $45 \cdot 4 = 180$ quarters) = \$288,264.15