
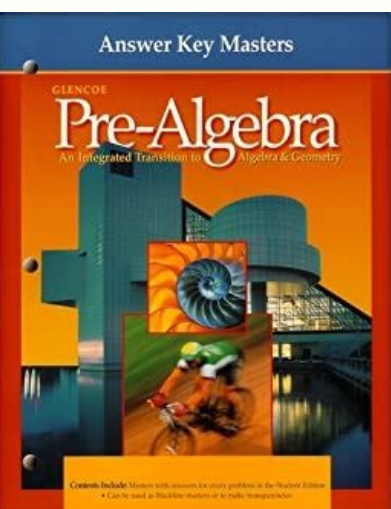


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### 2-1 Word Problem Practice

**Writing Equations**

**1. HONORS** The area of the Parthenon's facade is 100 square feet. This is 10% of the area of the first floor of the Parthenon. Let  $F$  represent the area of the first floor. Write an equation to represent the situation.  $100 = 0.1F$

**2. FAMILY** Kara has twice as old as her sister Sara. The sum of their ages is 24. Write a two-variable equation to represent the situation.  $x = 2y$  and  $x + y = 24$

**3. GEOMETRY** The formula  $F = \frac{1}{2}(b_1 + b_2)h$  shows the relationship between the number of faces  $F$ , edges  $E$ , and vertices  $V$  of a polyhedron. Write the formula to solve.

**4. Write a formula for converting Celsius temperature to Fahrenheit temperature.**  $F = 1.8C + 32$

**5. Find the Fahrenheit equivalent for 30°C and 45°C.** 86°F and 113°F

### 2-1 Enrichment

**Guess the Number**

Think of a number. Add five to your number. Then, double your result. Double your result again. Divide your answer by four. Finally, subtract your original number. Your result is five. How is it possible to know what the answer is without knowing the original number? Write the steps listed above as an expression in equation form. Then use algebra to show why the result works.

Think of a number:  $x$   
 Add five to your number:  $x + 5$   
 Double your result:  $2(x + 5)$   
 Double your result again:  $4(x + 5)$   
 Divide your answer by four:  $\frac{4(x + 5)}{4}$   
 Subtract your original number:  $\frac{4(x + 5)}{4} - x$   
 Simplify the final expression:  $x + 5 - x = 5$

So, the result will always be five, no matter what the starting number is.

**Write variable expressions to determine why each number trick works.**

**1. Think of a number. Add eight. Double your result. Subtract 10. Finally, divide your result by 4. You get your original number back.**  $(8x + 16) \cdot 2 - 10 \div 4 = x$

**2. Think of a number. Multiply by 15. Add 1 to your result. Then, subtract 3. Then add 1. That, subtract 4. Double your result. Finally, subtract your original number. You get your original number.**  $(15x + 1) \cdot 2 - 3 + 1 - 4 = x$

**3. Think of a number. Add 1. Multiply your result by 6. Now, double your result. That, divide your result by 12. Finally, subtract your original number. Your result is 1.**  $(x + 1) \cdot 6 \cdot 2 \div 12 - x = 1$

**4. Think of a number. Multiply by 3. Add five to your result. Then, double it. Subtract 1. That, your result. Finally, subtract your original number. Your final result is 5.**  $(3x + 5) \cdot 2 - 1 - x = 5$

**5. Think of a number. Add 10. Multiply by 3. Multiply again by 2. Double your result by 4. Finally, subtract your original number. Your answer is 85.**  $(x + 10) \cdot 3 \cdot 2 \cdot 4 - x = 85$

Answers (Lesson 2-1)

Chapter 8 Answers

**Practice 8-1**  
 1. 12.75 2. 180 by 100 3. 35.0 by 14.0  
 4. 18.18 by 9.0 5. 8.0 by 9.0 6. 7.0 by 10.0  
 7. true 8. false 9. true 10. false  
 11. false 12. true 13. true 14. false  
 15. false 16. 12 17. 11 18. 13 19. 14  
 20. 18 21. 20 22. 8 23. 8 24. -4  
 25. 11.5 26. 3.2 27. 12.7 28. 3 29. 11

**Practice 8-2**  
 1.  $\triangle ABC \sim \triangle XYZ$  with similarity ratio 1:1  
 2.  $\triangle QMN \sim \triangle RST$  with similarity ratio 1:3  
 3. No similar corresponding sides are not proportional.  
 4. No similar corresponding angles are not congruent.  
 5.  $\triangle ABC \sim \triangle LMN$  with similarity ratio 4:7  
 6. No similar corresponding sides are not proportional.  
 7.  $\angle A$ : 8,  $\angle D$ : 6,  $\angle E$ : 10,  $\angle G$ : 15,  $\angle H$ : 12  
 8.  $\angle I$ : 11,  $\angle J$ : 14,  $\angle K$ : 16,  $\angle L$ : 15,  $\angle M$ : 12  
 9.  $\angle N$ : 18,  $\angle O$ : 16,  $\angle P$ : 18,  $\angle Q$ : 20,  $\angle R$ : 18  
 10. 11 21. 37 22. 5

**Practice 8-3**  
 1.  $\triangle ABC \sim \triangle DEF$  because vertical angles are  $\cong$ .  $\angle A = \angle D$  (Given). Therefore  $\triangle ABC \sim \triangle DEF$  by the AA-Similarity Theorem. 2. Because  $\frac{AB}{DE} = \frac{AC}{DF} = \frac{BC}{EF} = \frac{3}{4}$ ,  $\triangle ABC \sim \triangle DEF$  by the SSS-Similarity Theorem. 3.  $\triangle QMP \sim \triangle RNP$  because vertical angles are  $\cong$ . Therefore, because  $\frac{QM}{RN} = \frac{MP}{NP} = \frac{QP}{RP} = \frac{3}{4}$ ,  $\triangle QMP \sim \triangle RNP$  by the SAS-Similarity Theorem. 4.  $\triangle LM \sim \triangle JK$  (Given) because they are right triangles.  $\angle L = \angle J$  and  $\angle M = \angle K$ . So  $\triangle LMN \sim \triangle JKL$  by the AA-Similarity Theorem. 5. Because  $\frac{AB}{DE} = \frac{AC}{DF} = \frac{BC}{EF} = \frac{3}{4}$ ,  $\triangle ABC \sim \triangle DEF$  by the SSS-Similarity Theorem. 6. Because  $\frac{AB}{DE} = \frac{AC}{DF} = \frac{BC}{EF} = \frac{3}{4}$ ,  $\triangle ABC \sim \triangle DEF$  by the SSS-Similarity Theorem. 7.  $\angle A$ : 8,  $\angle D$ : 6,  $\angle E$ : 10,  $\angle G$ : 15,  $\angle H$ : 12,  $\angle I$ : 11,  $\angle J$ : 14,  $\angle K$ : 16,  $\angle L$ : 15,  $\angle M$ : 12,  $\angle N$ : 18,  $\angle O$ : 16,  $\angle P$ : 18,  $\angle Q$ : 20,  $\angle R$ : 18

**Practice 8-4**  
 1. 8 2. 9 3.  $\sqrt{11}$  4.  $2\sqrt{11}$  5.  $16\sqrt{2}$   
 6.  $\sqrt{5}$  7.  $\frac{1}{2}$  8.  $\frac{1}{2}$  9.  $\frac{1}{2}$  10.  $\frac{1}{2}$  11.  $\frac{1}{2}$   
 12.  $x = 2k + 4y + 6\sqrt{5}$ ,  $14 = 6\sqrt{5} + 4y + 2k$   
 13.  $2\sqrt{10}$ ,  $16\sqrt{2}$ ,  $17\sqrt{2}$ ,  $17\sqrt{2}$ ,  $17\sqrt{2}$   
 14.  $x = \frac{1}{2}$ ,  $y = \frac{1}{2}$ ,  $10$ ,  $x = \sqrt{5}$ ,  $y = \sqrt{5}$ ,  $z = \sqrt{5}$   
 15.  $x = \frac{2}{3}$ ,  $y = \frac{1}{3}$ ,  $z = \frac{1}{3}$ ,  $21$ ,  $x = 8$ ,  $y = 2\sqrt{2}$   
 16.  $x = 4\sqrt{2}$ ,  $12$ ,  $2\sqrt{10}$

**Practice 8-5**  
 1. 4.5 2. 4.5 3. 3.5 4. 3.5 5. 3.5 6. 3.5 7. 3.5 8. 3.5 9. 3.5

**Practice 8-6**  
 1. 4.5 2. 4.5 3. 3.5 4. 3.5 5. 3.5 6. 3.5 7. 3.5 8. 3.5 9. 3.5

6-2 Study Guide and Intervention

Substitution

Solve by Substitution One method of solving systems of equations is substitution.

**Example 1** Use substitution to solve the system of equations.

$$\begin{aligned} y &= 2x \\ 4x - y &= -4 \end{aligned}$$

Substitute  $2x$  for  $y$  in the second equation.

$$4x - 2x = -4$$

Second equation:  $y = 2x$

$$2x = -4$$

Combine like terms.

$$x = -2$$

Divide each side by 2 and simplify.

Use  $y = 2x$  to find the value of  $y$ .

$$y = 2(-2)$$

$$y = -4$$

First equation:  $x = -2$

Second equation:  $y = -4$

The solution is  $(-2, -4)$ .

**Example 2** Solve for one variable, then substitute.

$$\begin{aligned} x + 3y &= 7 \\ 2x - 4y &= -6 \end{aligned}$$

Solve the first equation for  $x$  since the coefficient of  $x$  is 1.

$$x + 3y = 7$$

First equation

$$x + 3y - 3y = 7 - 3y$$

Subtract from each side.

$$x = 7 - 3y$$

Simplify.

Find the value of  $y$  by substituting  $7 - 3y$  for  $x$  in the second equation.

$$2(7 - 3y) - 4y = -6$$

Second equation

$$14 - 6y - 4y = -6$$

Distribute Property

$$14 - 10y = -6$$

Combine like terms.

$$14 - 10y - 14 = -6 - 14$$

Subtract 14 from each side.

$$-10y = -20$$

Simplify.

$$y = 2$$

Divide each side by  $-10$  and simplify.

Use  $y = 2$  to find the value of  $x$ .

$$x = 7 - 3(2)$$

$$x = 7 - 6$$

$$x = 1$$

The solution is  $(1, 2)$ .

**Exercises**

Use substitution to solve each system of equations.

1. $y = 4x$	2. $x = 2y$	3. $x = 2y - 3$
3x - y = 1	y = x - 2	x = 2y + 4
4. $x - 2y = -1$	5. $x - 4y = 1$	6. $x + 2y = 0$
3y = x + 4	2x - 8y = 2	3x + 4y = 4
7. 2x = 6x - 14	8. $x + y = 16$	9. $y = -x + 3$
3x - 4 = 7	2y = -2x + 2	2y + 2x = 4
10. $x = 2y$	11. $x - 2y = -5$	12. $-0.2x + y = 0.5$
0.25x + 0.5y = 10	x + 2y = -1	0.4x + y = 1.1





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