*PRAC ~ TIS Math ©*

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|---|---|---|
| Domain 1<br>Numbers and Operations | Math Preparation Review | Domain 2<br>Proportionality |
| Domain 3<br>Expressions, Equations and Relationships | Domain 4<br>Shapes, Measurement and Data | Domain 5<br>Personal Finance |

## Practice Units

| | Item | Domain | CC Codes |
|---|---|---|---|
| 1. | Identifying Number Relationships | 1 | 8-EE.1, .2 |
| 2. | Irrational Numbers | 1 | 8-Ns.2 |
| 3. | Scientific/Standard Notations | 1 | 8-EE.1, .3, .4 |
| 4. | Sorting Data | 1 | 8-NS.1, .2 |
| 5. | Calculating Proportions | 2 | 8-EE.6 |
| 6. | Calculating Proportions II | 2 | 8-EE.6 |
| 7. | Slope and Right Triangles | 2 | 8-EE.6; SP.3 |
| 8. | Proportional Relationships | 2 | 8-F.4 |
| 9. | Slope, 'y Intercept and Equations | 2 | 8-EE.5; F.5 |
| 10. | Constants of Proportionality | 2 | 8-EE.5 |
| 11. | Constants of Proportionality II | 2 | 8-EE.7 |
| 12. | Linear and Non Linear Proportions | 2 | 8-F.5 |
| 13. | Linear/Non Linear Data | 2 | 8-SP.1, .2 |
| 14. | Plotting Trend Lines | 2 | 8-EE.6; F.1 |
| 15. | Identifying Function/Non Function | 2 | 8-F.1 |
| 16. | Proportional /Non Proportional functions | 2 | 8-EE.7, .7A |
| 17. | Graphing Linear Relationships I | 2 | 8-EE.5 |
| 18. | Graphing Linear Relationships II | 2 | 8-EE.5 |
| 19. | Graphing Linear Relationships III | 2 | 8-EE.5 |
| 20. | Graphing Linear Relationships IV | 2 | 8-EE.5 |
| 21. | Graphing Linear Relationships V | 2 | 8-EE.5 |
| 22. | Graphing Linear Relationships VI | 2 | 8-EE.5 |
| 23. | Graphing Linear Relationships VII | 2 | 8-EE.5 |
| 24. | Applying the Pythagorean Theorem | 3 | 8-G.6 |
| 25. | Applying the Pythagorean Theorem II | 3 | 8-G.7 |
| 26. | Sphere and Half Sphere | 3 | 8-G.9 |
| 27. | Geometric Volume I | 3 | 8-G.9 |
| 28. | Geometric Volume II | 3 | 8-G.9 |
| 29. | Geometric Volume III | 3 | 8-G.9 |
| 30. | Surface Area | 3 | 8-G.9 |
| 31. | Calculating Distance on a Coordinate Plane | 3 | 8-G.8 |
| 32. | Add, Subtract, Solve | 3 | 8-EE.7 |
| 33. | Add, Subtract Unknowns | 3 | 8-EE.7 |
| 34. | Evaluate and Simplify | 3 | 8-EE.7 |

| | | | |
|---|---|---|---|
| **35.** | **Evaluate and Solve** | **3** | **8-EE.7** |
| **36.** | **Finding Unknowns** | **3** | **8-EE.7** |
| **37.** | **Mixed Practice** | **3** | **8-EE.7** |
| **38.** | **Multiply and Add** | **3** | **8-EE.7** |
| **39.** | **Simplify and Evaluate** | **3** | **8-EE.7** |
| **40.** | **Solve Add, Subtract, Divide** | **3** | **8-EE.7** |
| **41.** | **Solve Equations Division** | **3** | **8-EE.7** |
| **42.** | **Solve for Unknown** | **3** | **8-EE.7** |
| **43.** | **Solve Equations With One Variable** | **3** | **8-EE.7A, .7B** |
| **44.** | **One Variable Equations** | **3** | **8-F.2** |
| **45.** | **Stopping Distance** | **3** | **8-EE.7** |
| **46.** | **Angle Sums** | **3** | **8-G.5** |
| **47.** | **Angle Sums II** | **3** | **8-G.5** |
| **48.** | **Intersecting Lines** | **3** | **8-F.4** |
| **49.** | **Graphing Dilations** | **4** | **8-G.3, .4** |
| **50.** | **Graphing Reflections** | **4** | **8-G.1** |
| **51.** | **Graphing Rotations** | **4** | **8-G.1, .2, .3** |
| **52.** | **Graphing Translations** | **4** | **8-G.1** |
| **53.** | **Dilation of Shapes** | **4** | **8-G.3** |
| **54.** | **Dilation of Shapes II** | **4** | **8-G.3** |
| **55.** | **Trends and Correlations** | **4** | **8-SP.1** |
| **56.** | **Trends and Correlations II** | **4** | **8-SP.1** |
| **57.** | **Interpreting Data** | **4** | **8-SP.4** |
| **58.** | **Random Sampling** | **4** | **8-SP.4** |
| **59.** | **Loans and Interest** | **5** | **8-F.2** |
| **60.** | **Credit Card Interest** | **5** | **8-F.4** |
| **61.** | **Investing/Saving** | **5** | **8-F.2, .4** |
| **62.** | **Simple/Compound Interest** | **5** | **8-EE.1** |
| **63.** | **Payment Options** | **5** | **8-SP.3** |
| **64.** | **Interpreting Cost Comparisons** | **5** | **8-SP.4** |
| **65.** | **Estimating College Costs** | **5** | **8-F.1** |

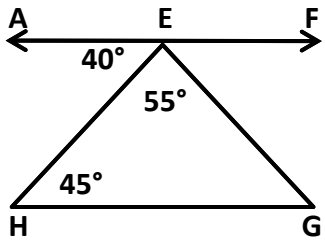
**Grade 8** **Angle Sums II**

*Practice Unit #47 from Menu*

**Name:** **Date:**

**S/N 927**

**1.**




**Angle AEH = 40°, angle HEG = 55°, and angle EHG = 45°.**

**Find the measure of angle GEF.** _____

**Find the measure of angle EGH.** _____

**Find the measure of angle FEH.** _____

**Find the measure of angle AEG.** _____

**2.** **The length of the sides of a rectangle are 10 more than its width. The perimeter of the rectangle is 80 units.**

**What is the width of the rectangle?** _____

**What is the length of the rectangle?** _____

**3.** **A triangle has a perimeter of 68 units. The side lengths are: 4x + 3, 8x, and x. What is the length of each side?**

**Side one.** _____

**Side two.** _____

**Side three.** _____

Grade 8

# Angle Sums II

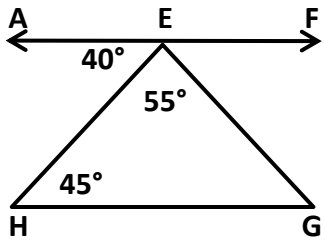
*Practice Unit #47 from Menu*

**Teacher Key**

S/N 927

CC Codes 8-G.5

Domain 3

1. 


Angle AEH = 40°, angle HEG = 55°, and angle EHG = 45°.

Find the measure of angle GEF. **85°**

Find the measure of angle EGH. **80°**

Find the measure of angle FEH. **140°**

Find the measure of angle AEG. **95°**

2. The length of the sides of a rectangle are 10 more than its width. The perimeter of the rectangle is 80 units.

What is the width of the rectangle? **15 units**

What is the length of the rectangle? **25 units**

3. A triangle has a perimeter of 68 units. The side lengths are: 4x + 3, 8x, and x. What is the length of each side?

Side one. **23 units**

Side two. **40 units**

Side three. **5 units**

Grade 8

# Domain 2
# Proportionality
## Teacher Key

S/N 8475

| Page Number | Unit Number | Answer | Domain | CC Codes |
|---|---|---|---|---|
| 1. | 1. | (C) | 2 | 8-F.4; 8-SP.3 |
| 2. | 2. | (C) | 2 | 8-G.3 |
| 3. | 3. | (A) | 2 | 8-SP.3; 8-EE.7; 8-F.4 |
| 4. | 4. | (D) | 2 | 8-EE.5, .6 |
| 5. | 5. | (B) | 2 | 8-F.2,3 |
| 5. | 6. | (B) | 2 | 8-EE.7A |
| 6. | 7. | (B) | 2 | 8-EE.5, .6 |
| 7. | 8. | (B) | 2 | 8-SP.1,2 |
| 8. | 9. | (C) | 2 | 8-F.3 |
| 9. | 10. | (C) | 2 | 8-EE.6 |
| 10. | 11. | (A) | 2 | 8-EE.5 |
| 11. | 12. | (B) | 2 | 8-F.3 |
| 12. | 13. | (B) | 2 | 8-EE.5 |
| 13. | 14. | (A) | 2 | 8-SP.3 |
| 14. | 15. | (B) | 2 | 8-F.3 |

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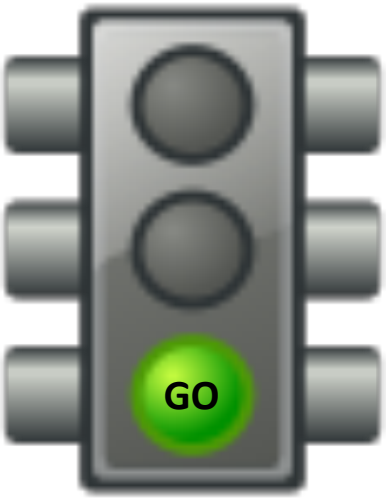
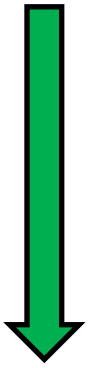
**Student Name :** _____



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Continue

8. A store manager recorded how many people were in different groups of customers and how much those groups spent. The scatter plot graph below shows the data.

Based on this scatter plot graph, about how much money would a group of 7 people be expected to spend on purchases at this store?

A. $70

B. $84

C. $55

D. $95

A B C D

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Grade 8 Math Preparation Review

# Teacher Key

S/N 6586

| Page Number | Unit Number | Answer | Domain | CC Codes |
|---|---|---|---|---|
| 1. | 1. | (C) | 1 | 8-F.2 |
| 2. | 2. | (B) | 5 | 8-EE.7A |
| 2. | 3. | (B) | 3 | 8-G.9 |
| 3. | 4. | (C) | 2 | 8-F.4; 8-SP.3 |
| 4. | 5. | (C) | 3 | 8-G.7 |
| 5. | 6. | (B) | 3 | 8-EE.7A |
| 6. | 7. | (A) | 4 | 8-SP.4 |
| 6. | 8. | (B) | 3 | 8-G.9 |
| 7. | 9. | (A) | 3 | 8-EE.8A |
| 7. | 10. | (D) | 1 | 8-EE.4 |
| 8. | 11. | (C) | 3 | 8-G.9 |
| 8. | 12. | (C) | 3 | 8-G.9 |
| 9. | 13. | (D) | 4 | 8-EE.5, .6 |
| 10. | 14. | (B) | 2 | 8-F.4 |
| 10. | 15. | (C) | 3 | 8-G.9 |
| 11. | 16. | (A) | 2 | 8-F.3; 8-SP.3 |
| 12. | 17. | (D) | 2 | 8-G.3 |
| 13. | 18. | (C) | 2 | 8-SP.3; 8-EE.7; 8-F.4 |
| 14. | 19. | (D) | 2 | 8-EE.5, .6 |
| 15. | 20. | (B) | 2 | 8-F.2,3 |
| 15. | 21. | (C) | 5 | 8-EE.7A |
| 16. | 22. | (D) | 2 | 8-EE.5, .6 |
| 17. | 23. | (A) | 2 | 8-SP.1,2 |
| 18. | 24. | (A) | 2 | 8-F.3 |
| 19. | 25. | (D) | 3 | 8-G.7 |
| 19. | 26. | (D) | 2 | 8-EE.7A |
| 20. | 27. | (D) | 2 | 8-EE.6 |

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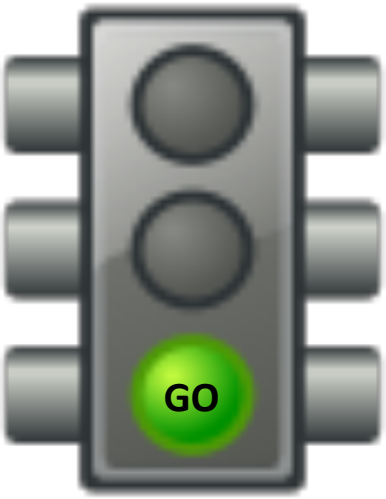
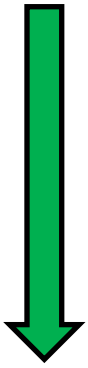
**Date :** _____

**Student Name :** _____



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S/N 6586

Continue

23. A store manager recorded how many people were in different groups of customers and how much those groups spent. The scatter plot graph below shows the data.

Based on this scatter plot graph, about how many people would be expected to spend $144 on purchases at this store?

A. 12

B. 11

C. 14

D. 13

A B C D

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