Geometry 4th & Measurement Grade

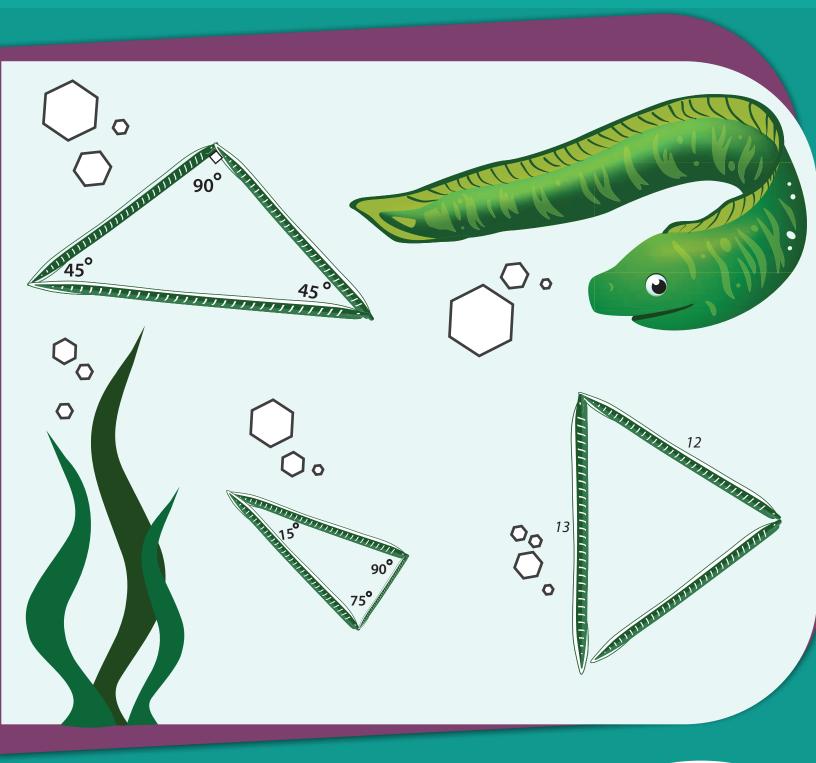




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Geometry and Measurement

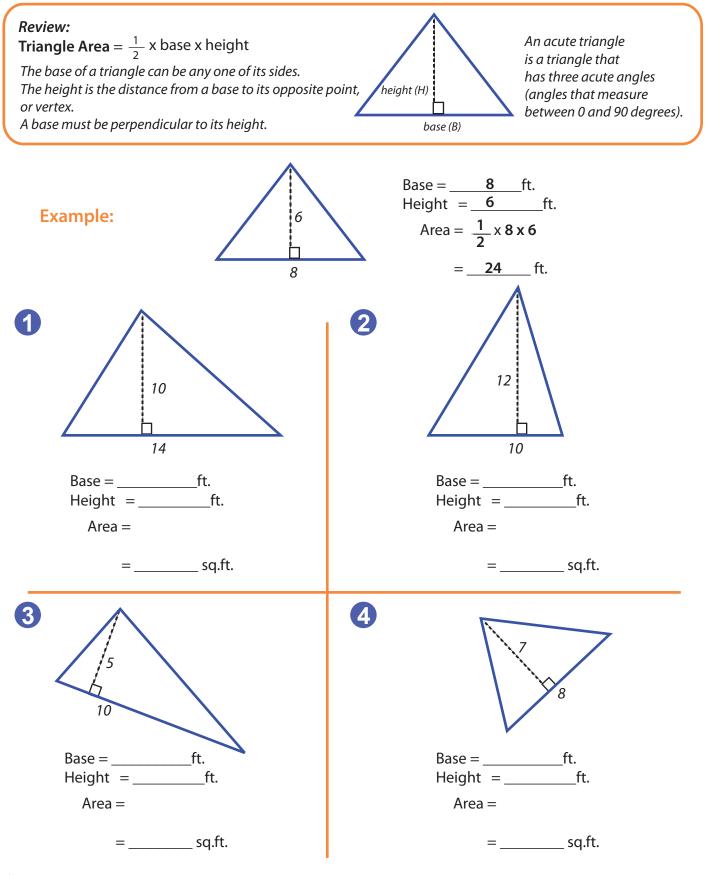
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> Certificate of Completion Answer Sheets

* Has an Answer Sheet

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Use the clues provided to find the area of each triangle. Show your work.



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Units of Measurement

Help Franky decide what is the best unit of measurement to bulid areas of his house!

1. Length of the bedroom b. Miles a. Inches c. Millimeters d. Feet 2. Height of ceiling b. Kilometers a. Feet c. Miles d. Centimeters 3. Width of fence boards b. Yards a. Miles c. Inches d. Feet 4. Water for pool b. Gallons a. Cups c. Tablespoons d. Liters 5. Length of lawn a. Centimeters b. Kilometers d. Inches c. Yards





Hours, Days, and Weeks

Answer the questions by converting the units of time. Remember, 1 day equals 24 hours and 1 week equals 7 days.





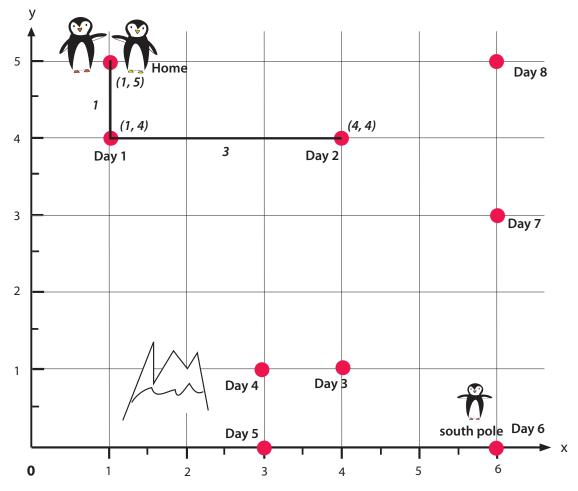
The Right Time

Answer the questions by converting the units of time. Remember, 1 hour equals 60 minutes and 1 minute equals 60 seconds.



Traveling to the South Pole: Practice Coordinates and Perimeter

The penguin parents are traveling to the South Pole to pick up their baby, stopping at each point on the grid along the way. Then together, the three of them will go back home in a different route. See how far their route is by finding the distance between the coordinates (see examples below). *Review: The first number refers to X coordinate. The second number refers to Y coordinate.*



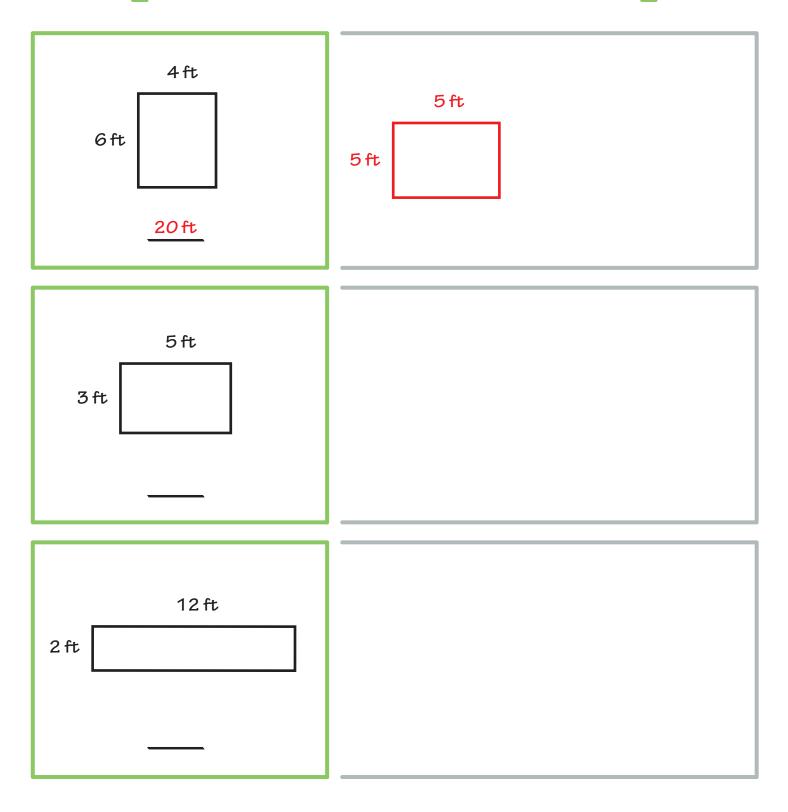
Example:

Day 1: Distance between home (1, 5) to Day 1 stop (1, 4). Subtract difference of Y-value of each location. Y value of home = 5, Y value of Day 1 stop = 4. Therefore, the distance is 5 - 4 = 1. Then draw a line from each point and write 1.

Day 2: Distance between Day 1 stop (1, 4) to Day 2 stop (4, 4). Subtract difference of X-value of each location. X value of Day 2 stop = 4, X value of Day 1 stop = 1. Therefore, the distance is 4 - 1 = 3. Then draw a line from each point and write 3.

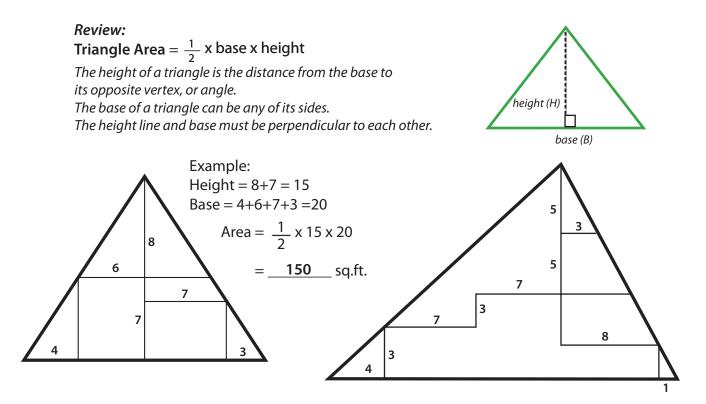
PERIMETER MATCH ==

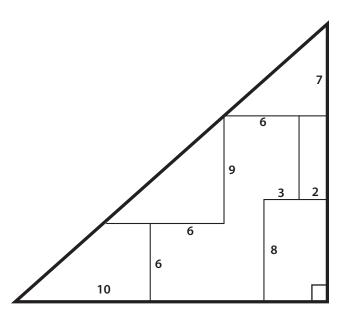
Find the *perimeter* of each rectangle, then draw at least 2 rectangles that have the same perimeter.

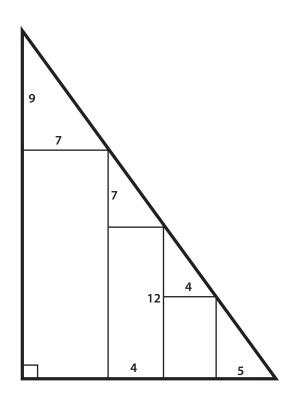


Grade Geometry Detective: Triangle #2

Find area of each triangle using clues from the lengths provided. Show your work.



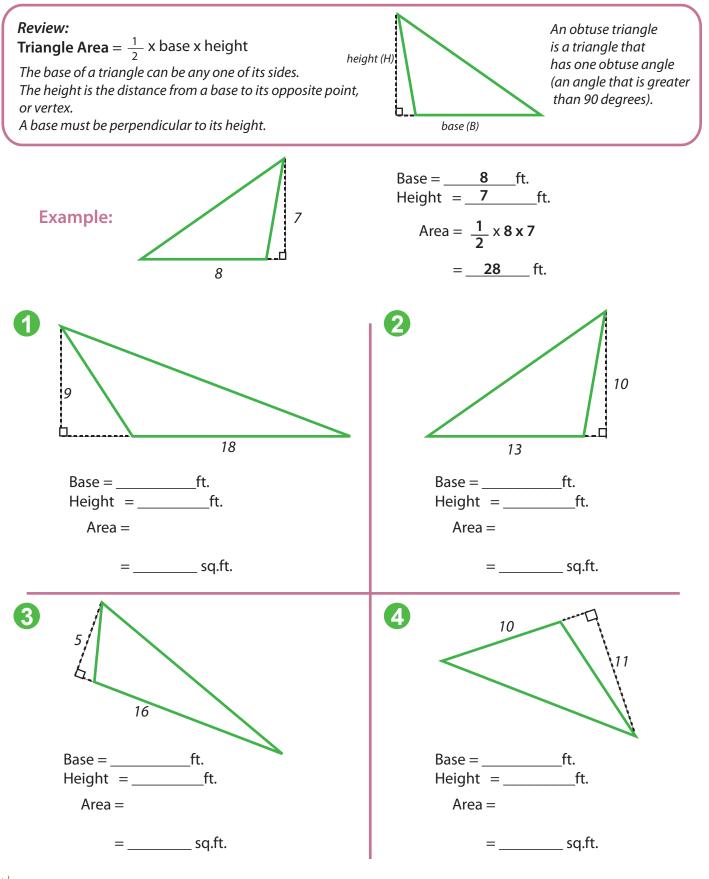




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Grade Obtuse Triangle: Practice Finding Area

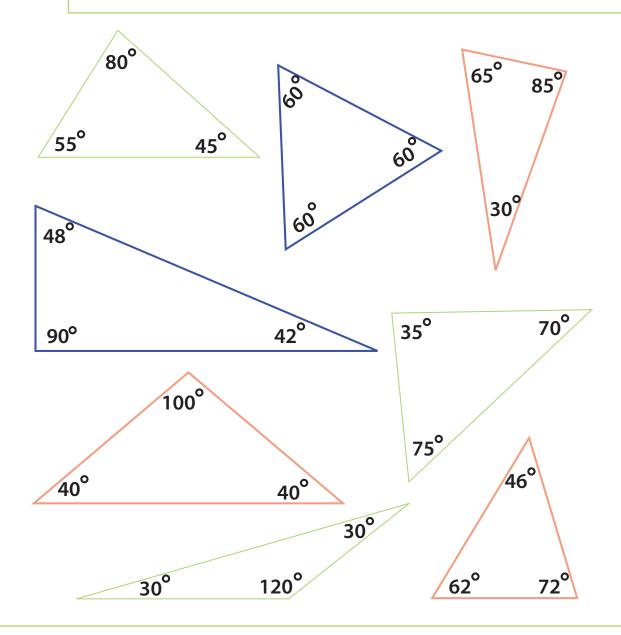
Use the clues provided to find the area of each triangle. Show your work.



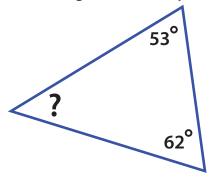
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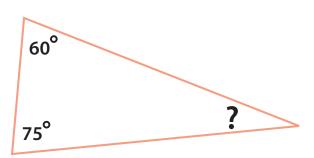
Math Geometry Identifying Triangles: Acute Triangles

An acute triangle is a triangle that has three acute angles (angles that each measure less than 90 degrees). Circle the acute triangles below.



Find the value of the missing angles in these acute triangles. Remember, the three angles in a triangle must add up to 180 degrees.



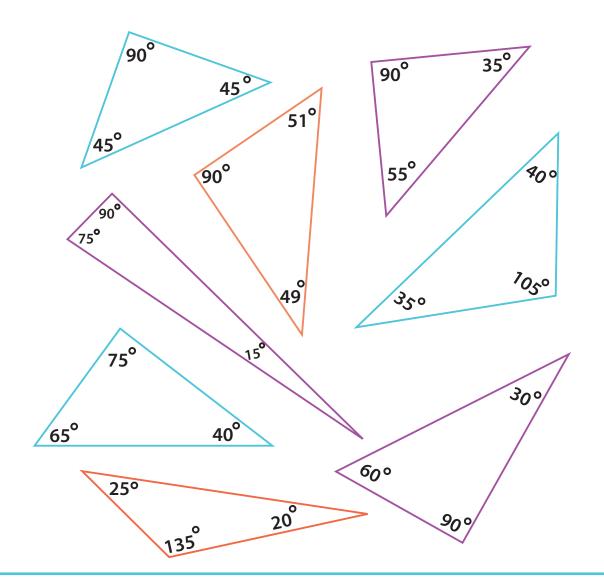


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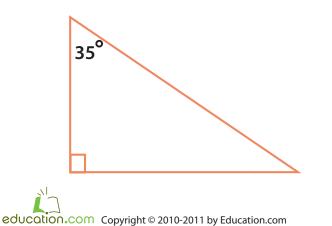
Math Geometry

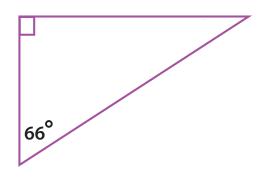
Identifying Triangles: Right Triangles

A right triangle is a triangle that has one right angle (90 degree angle). Circle the triangles that is a right triangle.



Find the value of the missing angles in these right triangles. Remember, three angles in every triangle always add up to 180 degree.

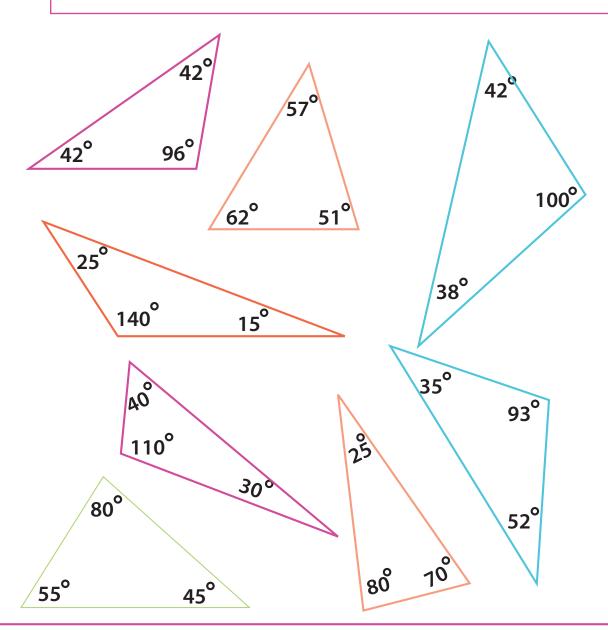




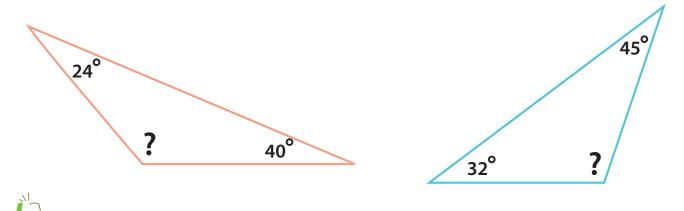


Identifying Triangles: Obtuse Triangles

An obtuse triangle is a triangle that has one obtuse angle (an angle that measures more than 90 degrees). Circle the obtuse triangles below.

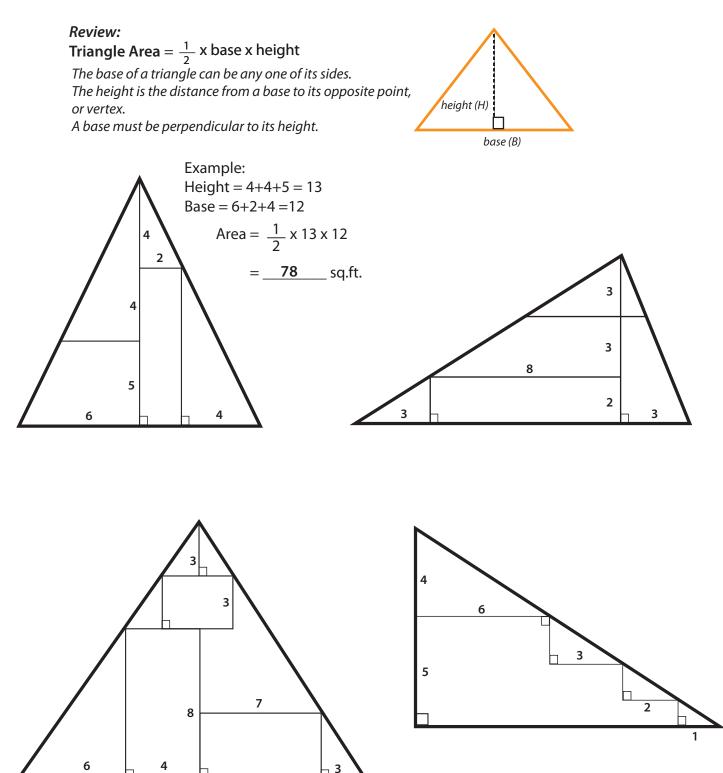


Find the value of the missing angles in these obtuse triangles. Remember, the three angles in a triangle must add up to 180 degrees.



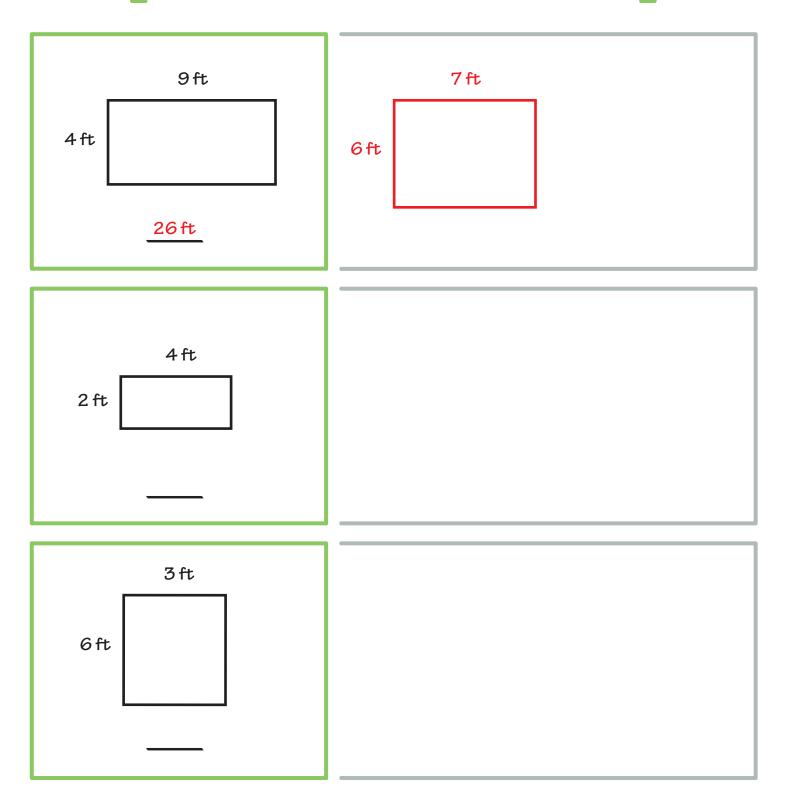
Geometry Detective: Triangle

Find the area of each triangle using clues from the lengths provided. Show your work.



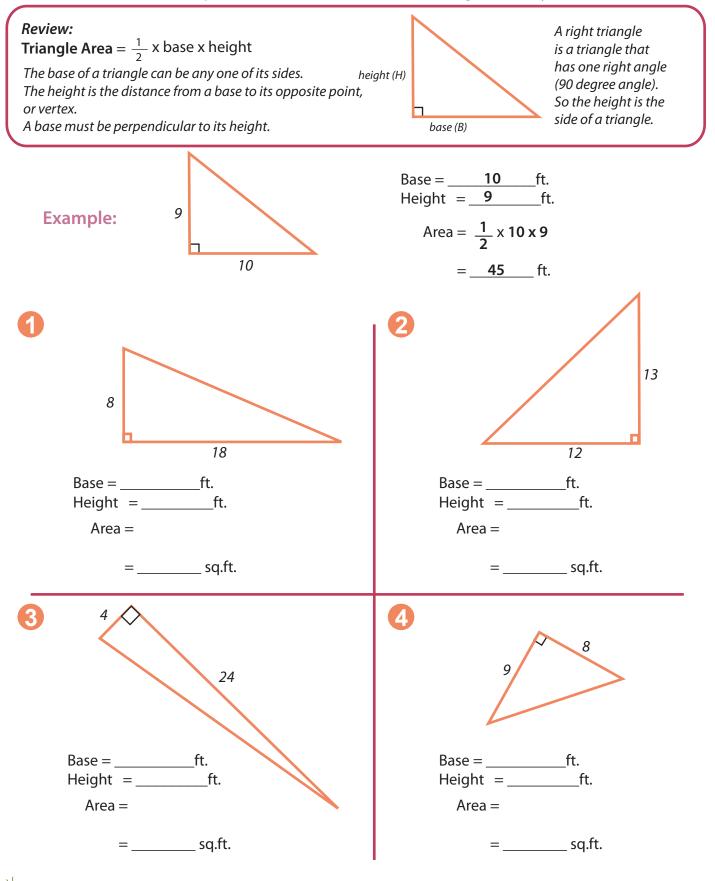
PERIMETERMATCH

Find the *perimeter* of each rectangle, then draw at least 2 rectangles that have the same perimeter.



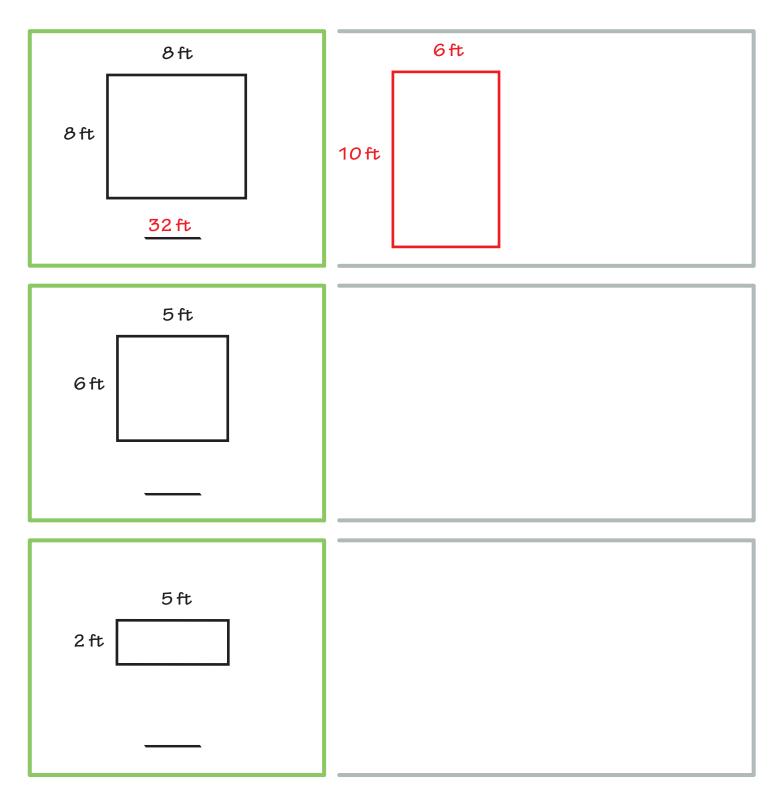
Ath Grade Right Triangle: Practice Finding Area

Use the clues provided to find the area of each triangle. Show your work.

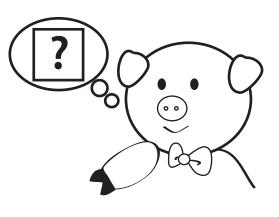


PERIMETERMATCH

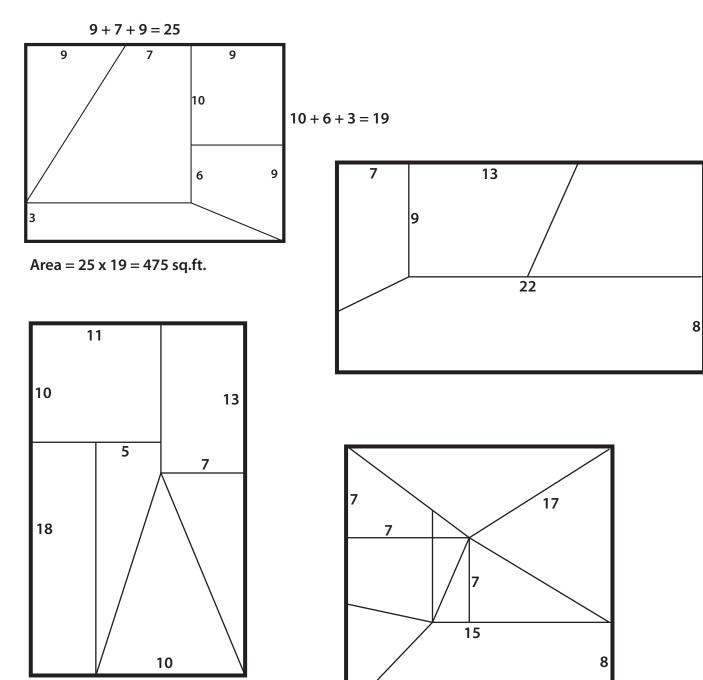
Find the *perimeter* of each rectangle, then draw at least 2 rectangles that have the same perimeter.

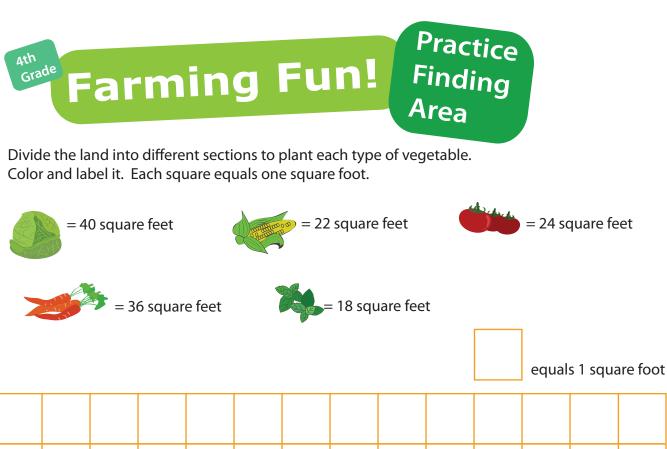


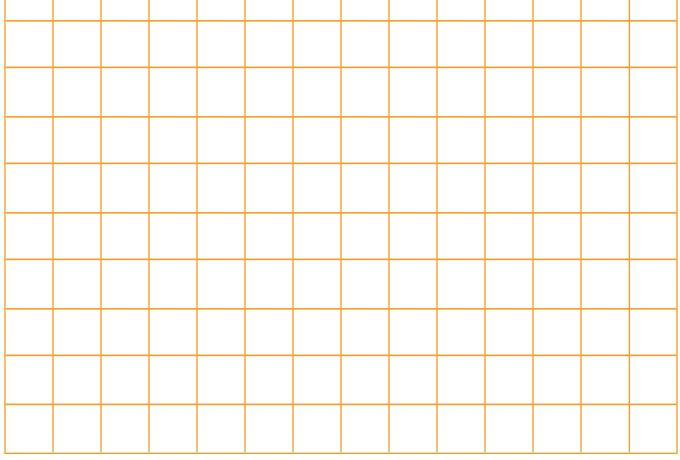
Finding Area: Medium Help Piggy pick a room with the largest area. Add up the sides using the lengths of each tile, then find the area. Remember, Area = $L \times W$.



Example:



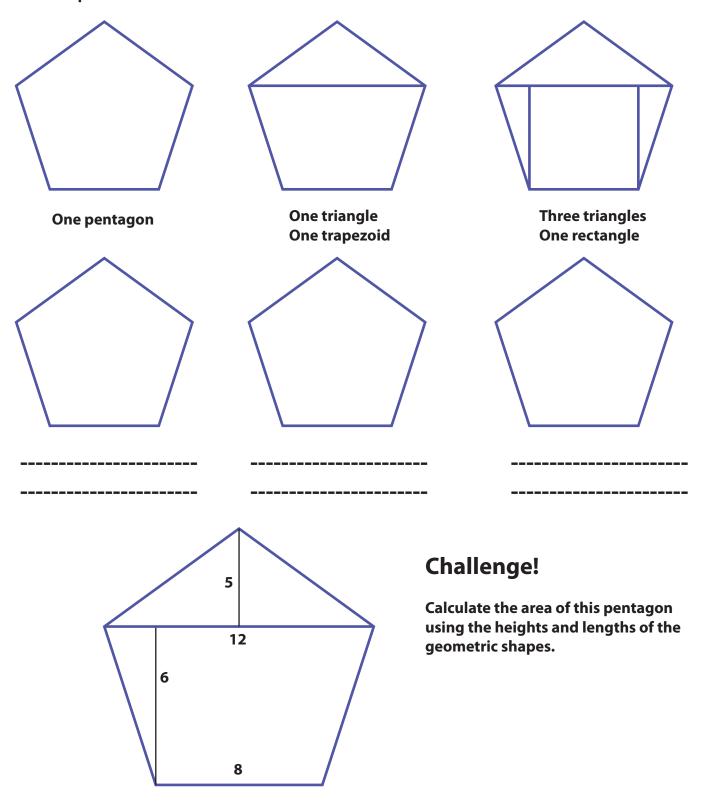






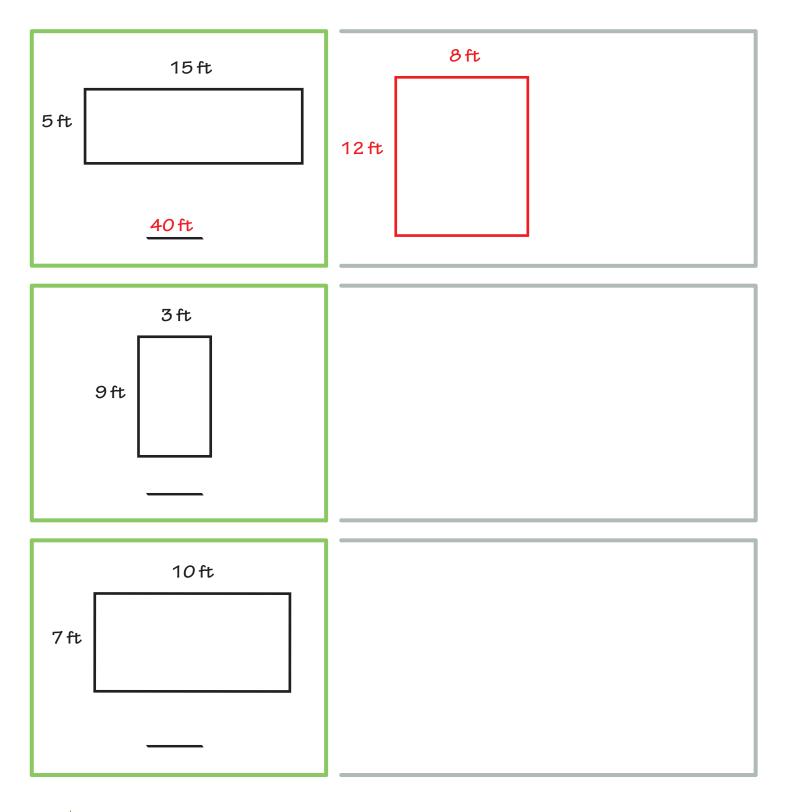
A pentagon contains many shapes that you probably already know. Use a ruler to divide the pentagon into regular shapes that you are familiar with. Then, name the shapes you created. This will help you practice finding the area of irregular shapes.

Example:



PERIMETERMATCH

Find the *perimeter* of each rectangle, then draw at least 2 rectangles that have the same perimeter.

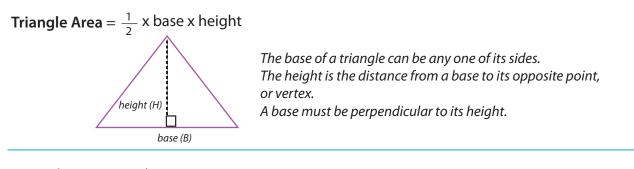


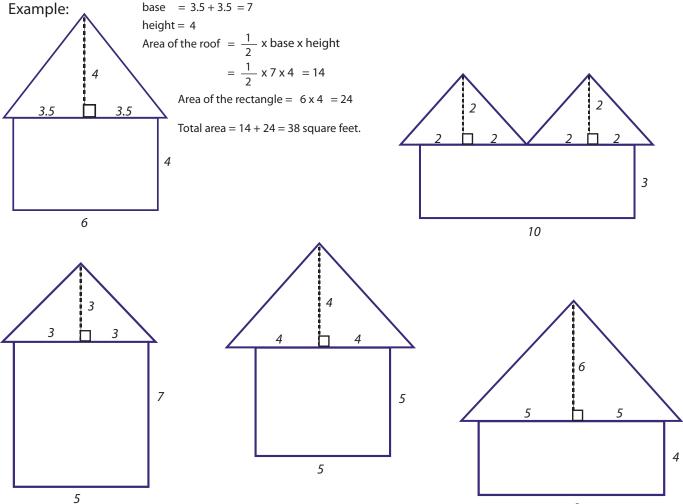


Help Mr. Rabbit find his new home. The total area of his place has to be at least *60* square feet. This includes the area of a roof (triangle) plus the area of the house (rectangle).

Review:

Rectangle Area = length x width





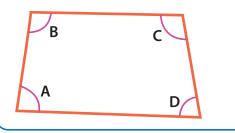
Which home should Mr. Rabbit move into? Circle it.



8

The Missing Angle: Quadrilaterals

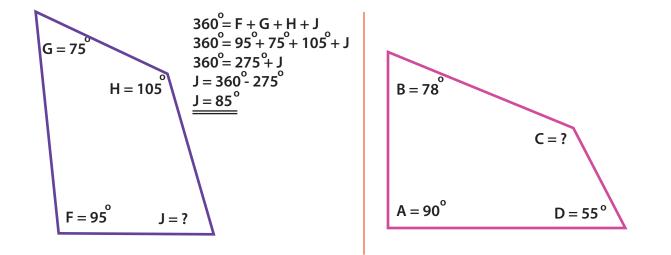
In every quadrilateral, all four angles add up to 360 $^\circ\!.$

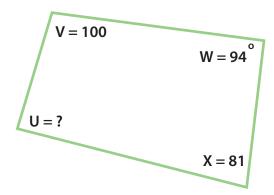


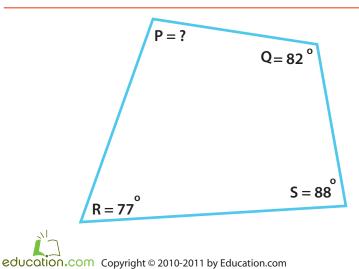
Math Geometry

360 = A + B + C + D

Use this rule to find the missing angle in the quadrilaterals. See the example.









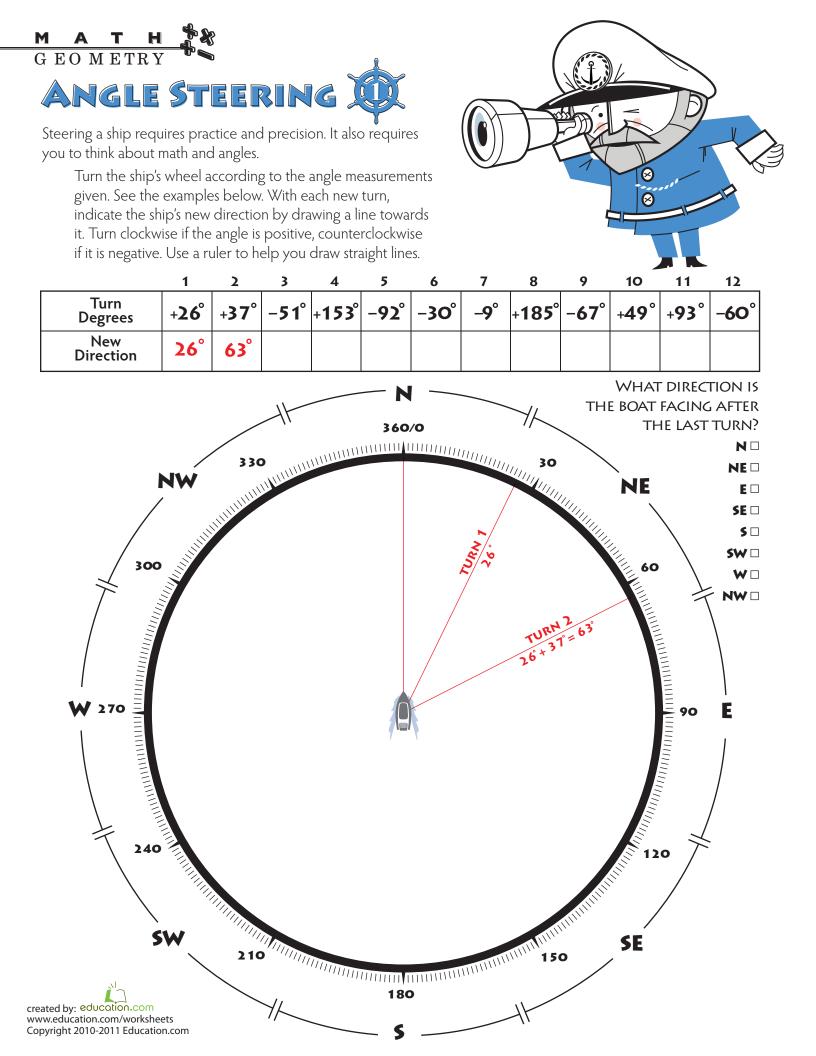
Parallel and Perpendicular lines

Elouisa the Eel

Elouisa the Eel needs help learning parallel and perpendicular lines. Draw parallel lines through the black dots and perpendicular lines through the white dots. Use a ruler to help you draw straight lines.

Parallel • Perpendicular 3 2 1 A STATE OF THE OWNER 1. Manual M Manual Ma Manual Ma Manual Ma Manual Manua 0 5 6 4 AND THE DESCRIPTION OF THE OWNER 7 8 9 0 0 0

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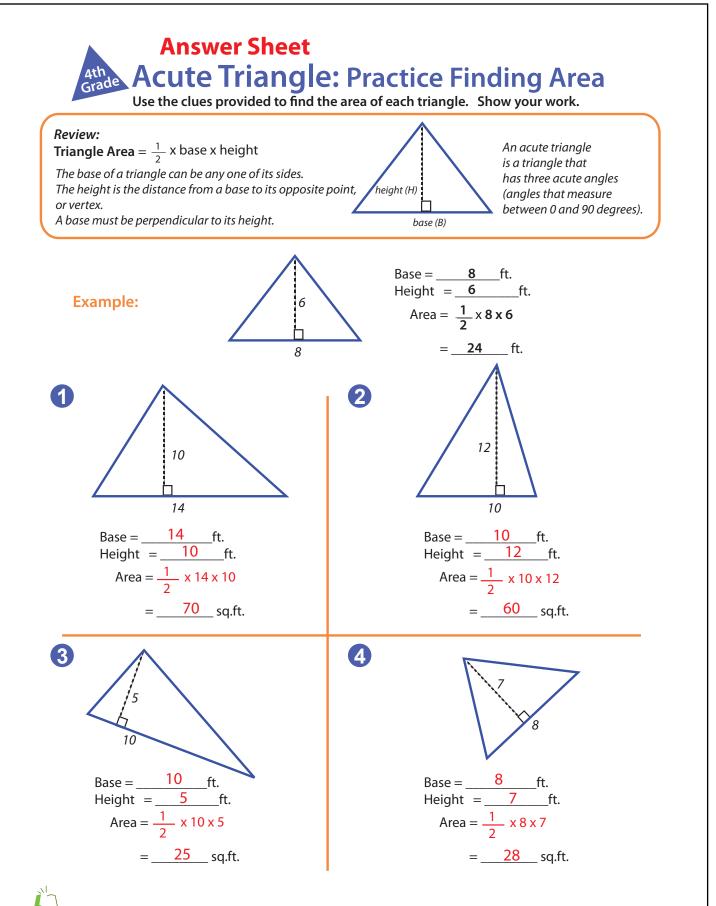




Geometry and Measurement

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Units of Measurement

Help Franky decide what is the best unit of measurement to bulid areas of his house!

- 1. Length of the bedroom
 - a. Inches b. Miles
 - c. Millimeters d. Feet
- 2. Height of ceiling
 - a. Feetb. Kilometersc. Milesd. Centimeters
- 3. Width of fence boards
 - a. Miles b. Yards c. Inches d. Feet
- 4. Water for pool

a. Cups

- b. Gallons
- c. Tablespoons d. Liters
- 5. Length of lawn
 - a. Centimeters b. Kilometers
 - c. Yards d. Inches





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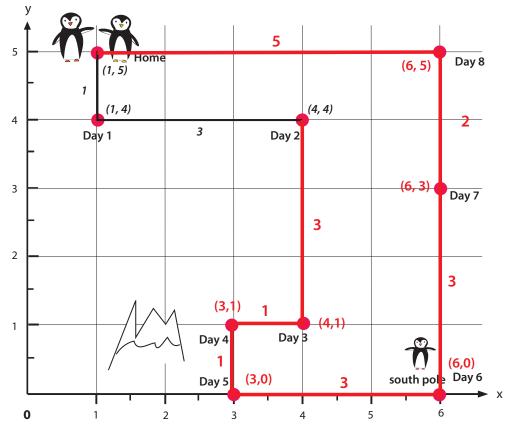
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Traveling to the South Pole: Practice Coordinates and Perimeter

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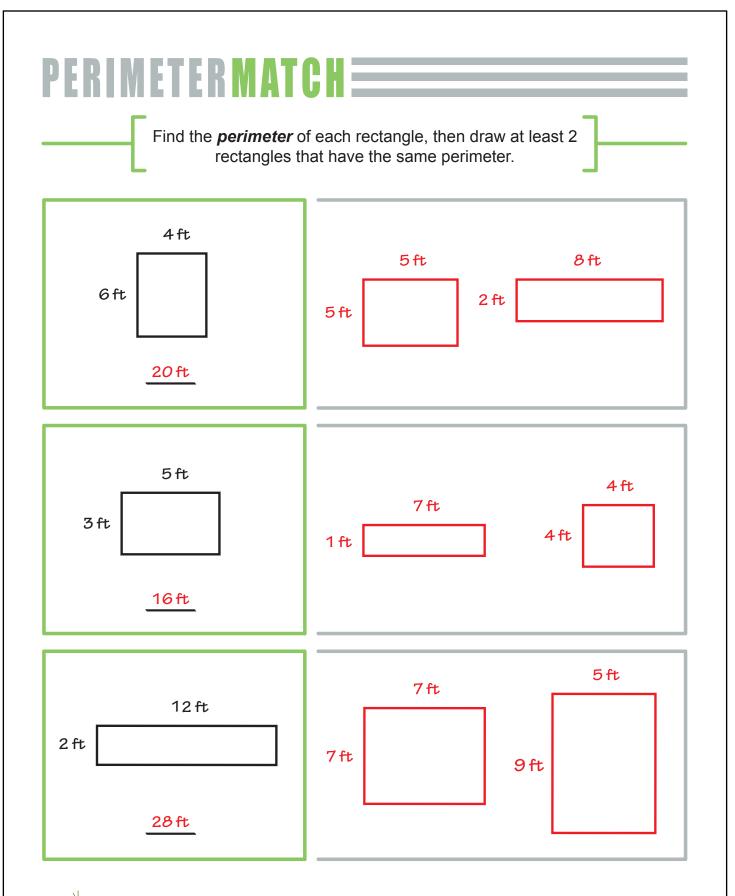


Example:

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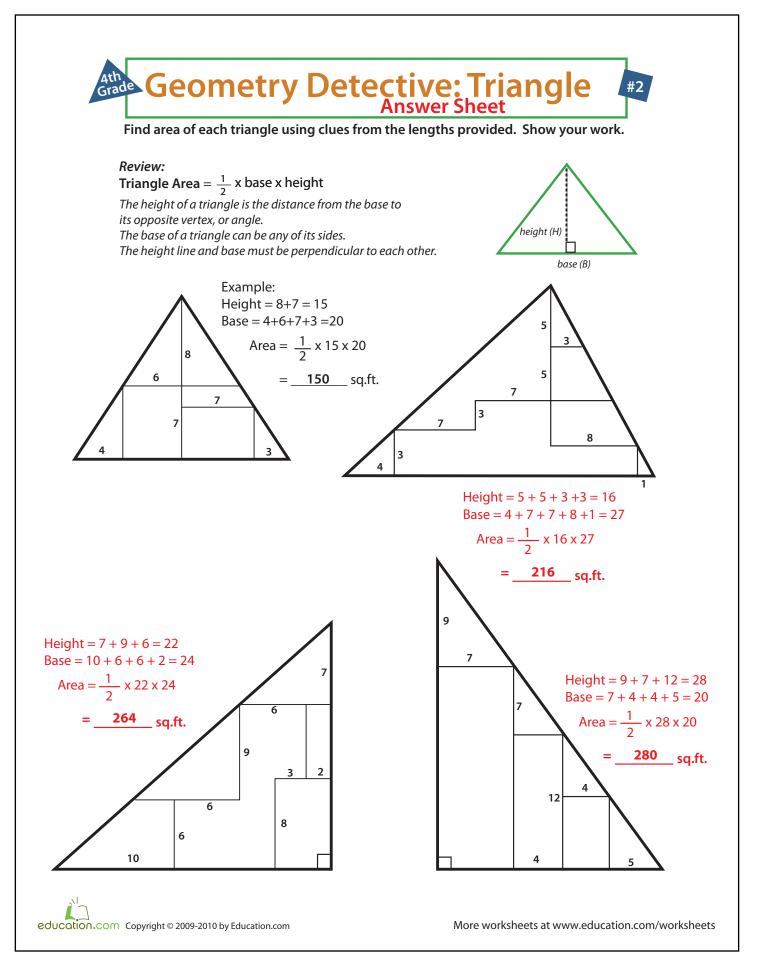
Day 2: Distance between Day 1 stop (1, 4) to Day 2 stop (4, 4). Subtract difference of X-value of each location. X value of Day 2 stop = 4, X value of Day 1 stop = 1. Therefore, the distance is 4 - 1 = 3. Then draw a line from each point and write 3.

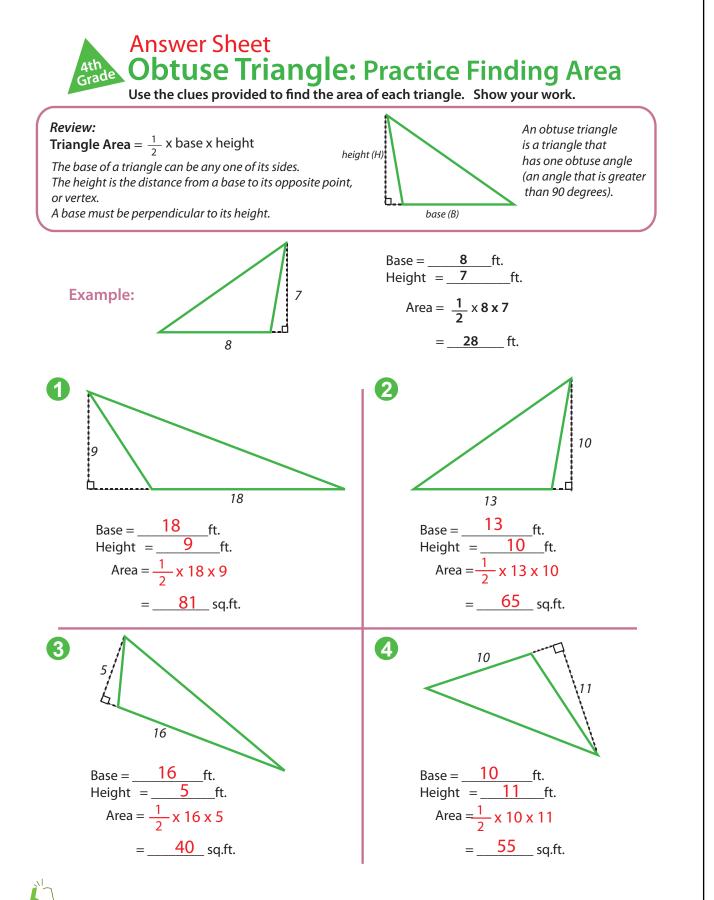
| Day 3: (4,1) | Day 4: (3,1) | Day 5: (3,0) | |
|--------------|--------------|--------------|----------------|
| 4 - 1 = 3 | 4 - 3 = 1 | 1 - 0 = 1 | |
| | | | |
| Day 6: (6,0) | Day 7: (6,3) | Day 8: (6,5) | Day 8 to Home: |
| 6 - 3 = 3 | 3 - 0 = 3 | 5 - 3 = 2 | 6 - 1 = 5 |





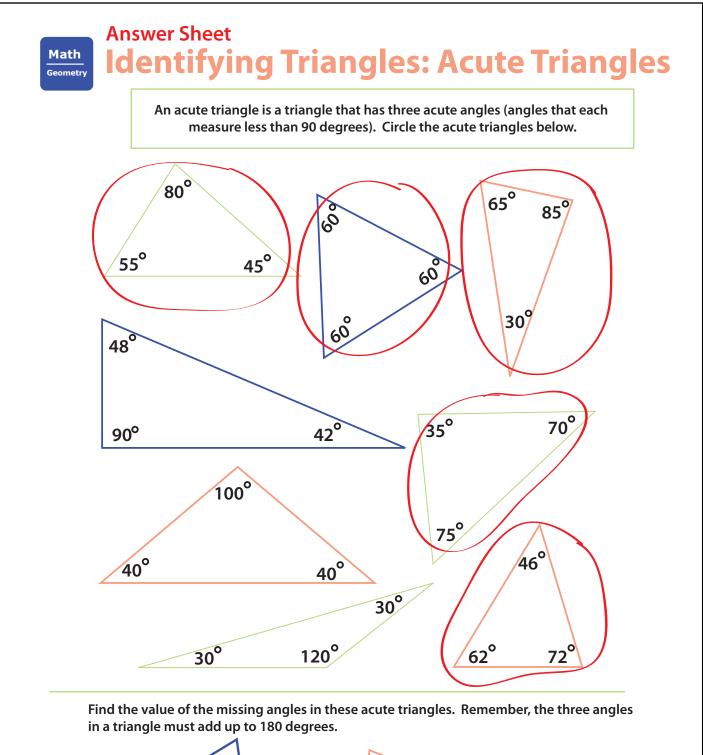
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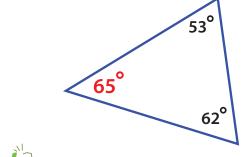


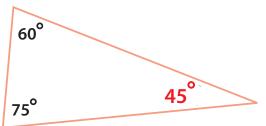


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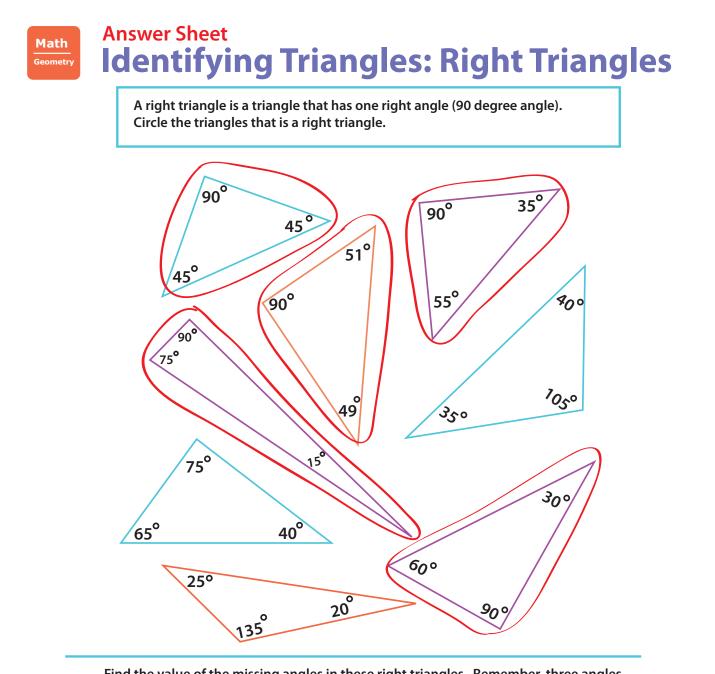




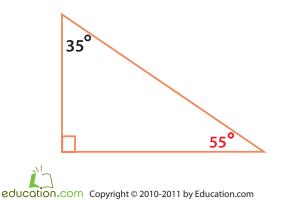


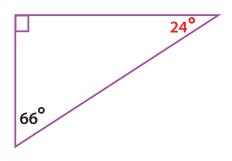
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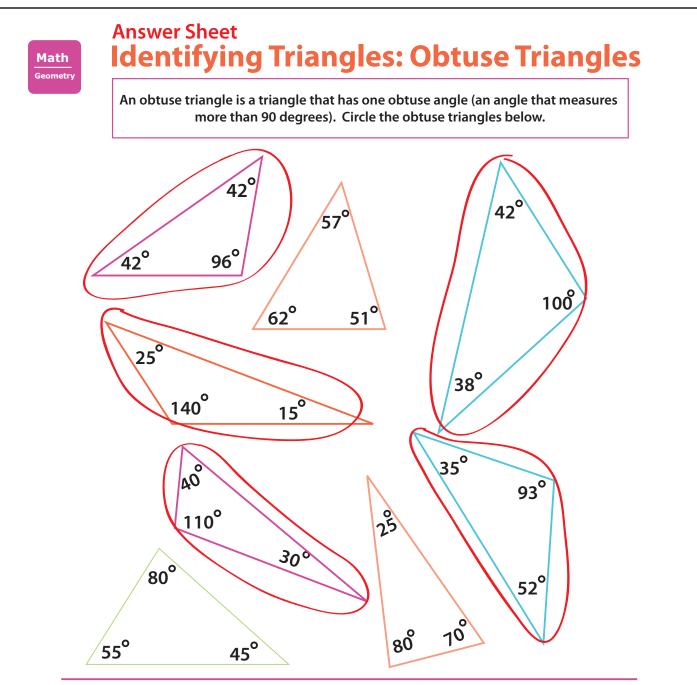
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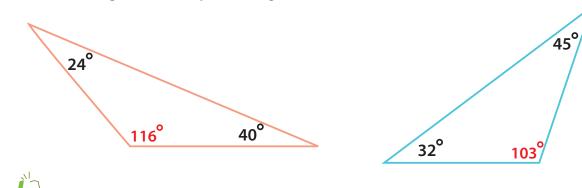
Find the value of the missing angles in these right triangles. Remember, three angles in every triangle always add up to 180 degree.



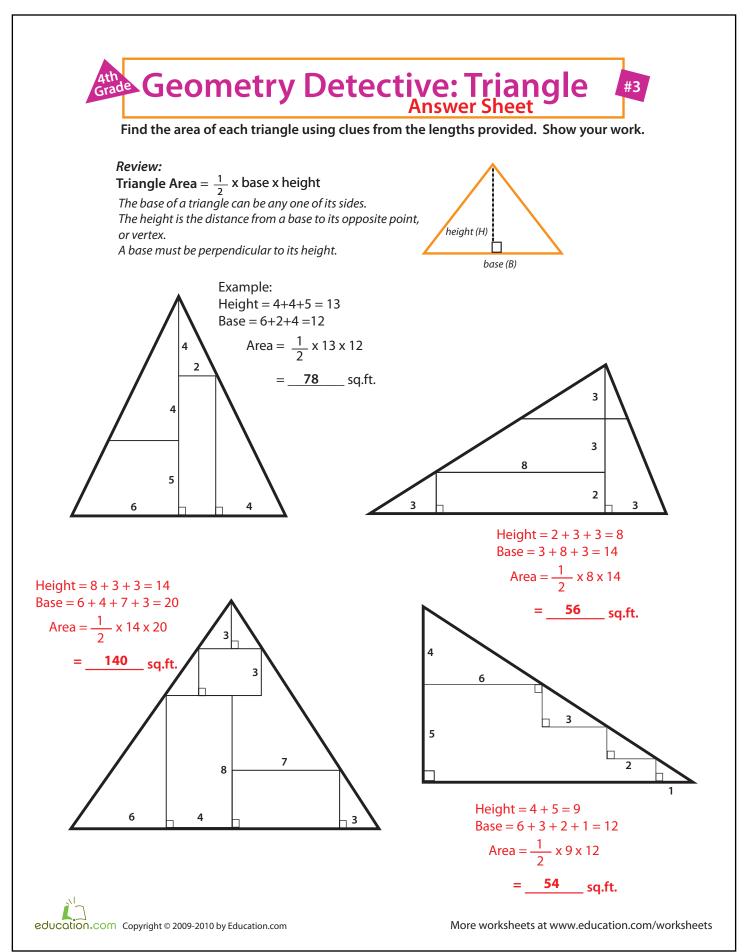


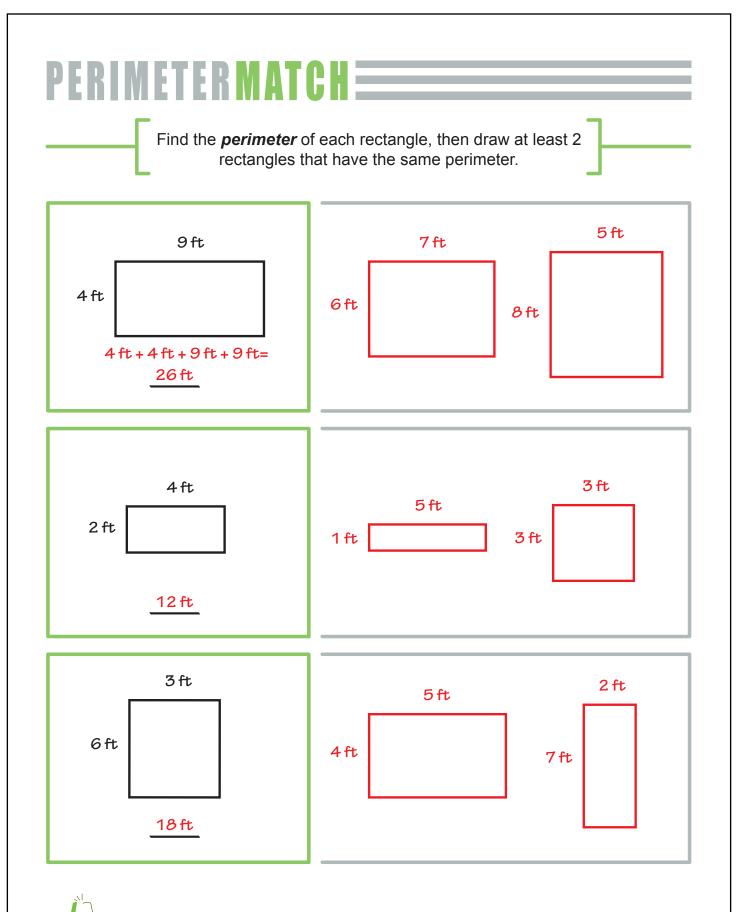


Find the value of the missing angles in these obtuse triangles. Remember, the three angles in a triangle must add up to 180 degrees.

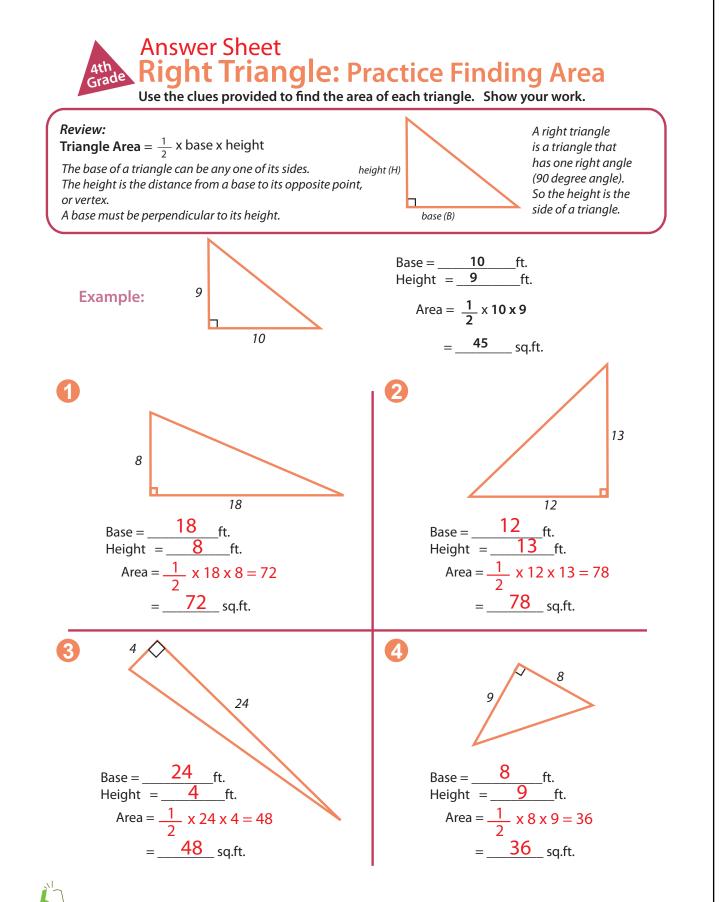


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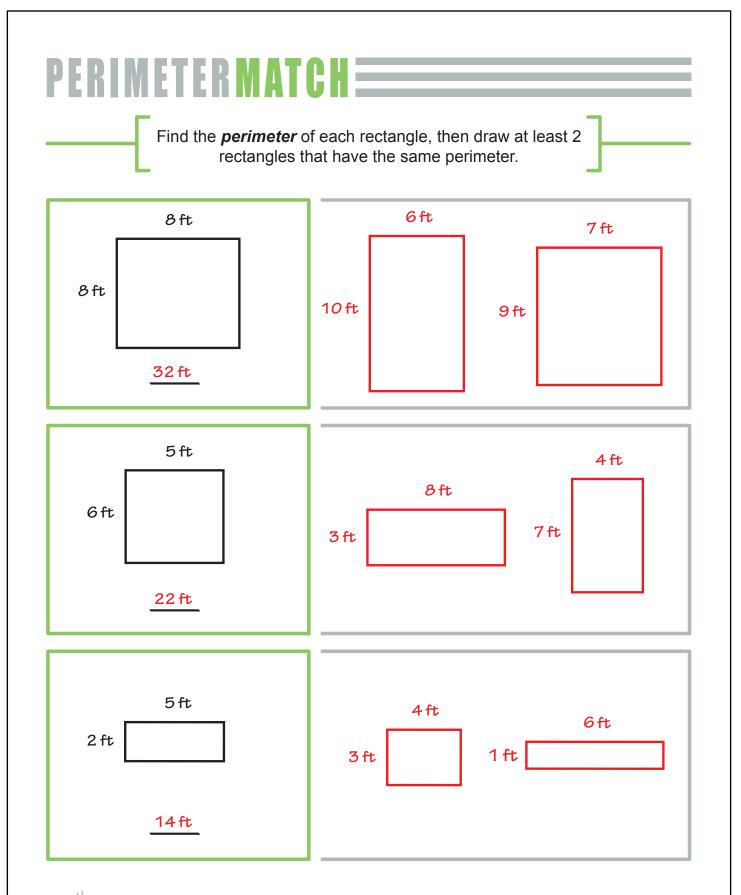




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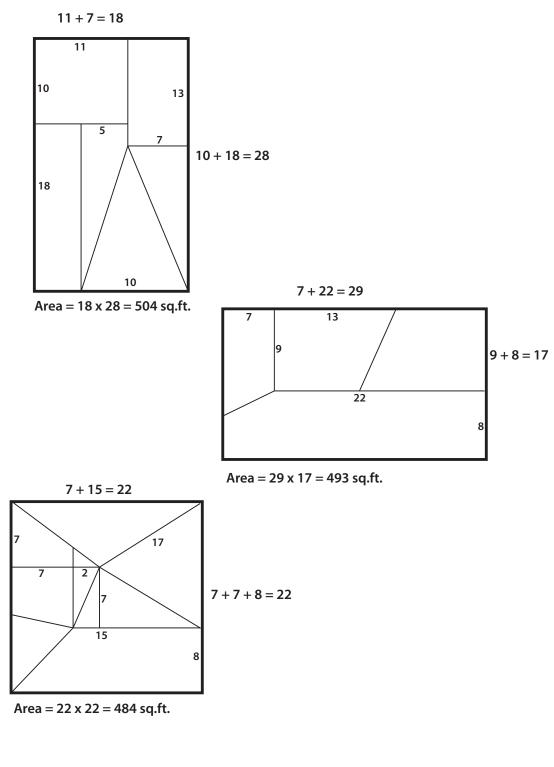


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Finding Area: Medium Answer sheet



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Pentagon: Calculating Area

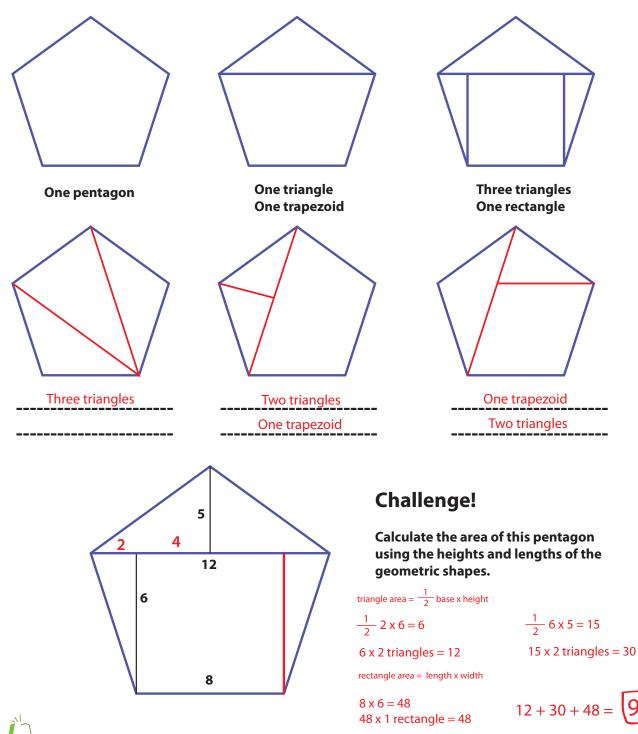


Answer Sheet

Various answers can apply. Here are a few examples.

A pentagon contains many shapes that you probably already know. Use a ruler to divide the pentagon into regular shapes that you are familiar with. Then, name the shapes you created. This will help you practice finding the area of irregular shapes.

Example:



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