



California Standard – Mathematics 1.1, 2.1, and 2.2

Measurement and Geometry

- 1.1 – Derive and use the formula for the area of a triangle by comparing it with the area of a rectangle.
- 2.1 - Measure, identify, and draw angles and triangles by using appropriate tools.
- 2.2 – Know that the sum of the angles of any triangle is 180 degrees.

Overview Students will use the template provided to draw different types of angles and triangles. Next, they will label the angles of the triangles. Students will use the formula ($\frac{1}{2}bh$) to find the area of selected triangles.

Pre-requisites

- Students should be learning, or know, the different types of angles and triangles. (obtuse, right, and acute)
- Students should know that the sum of the angles in any triangle equals 180 degrees.
- Students should know the formula for a rectangle (bh) and be introduced to the area of a triangle ($\frac{1}{2}bh$)
- Students should understand how to use the Text Tool, Drawing Tools, Fill Bucket, Rubber Stamp Tool, and the Sticker Tool.
- Copy the index of rubber stamps at the back of the Kid Pix® Deluxe 4 manual for students to find the stamps they want to use faster and easier.

Objectives

Learning:

- Create a chart on different types of angles and triangles.
- Label the angles of triangles.
- Find the area of selected triangles.

Technology:

- Use of Text Tool
- Use of Drawing Tools
- Use of Fill Bucket
- Use of Rubber Stamp Tool
- Use of Sticker Tool

Extended Activities

- Present finished charts in front of the class.
- Have the students make their own template of triangles with the height and base labeled. Students can exchange templates and find the area of the triangles.



1. Open the Angles and Triangles Template

- Open Kid Pix® Deluxe 4
- Go to File and choose Open
- Double click on the "AngleTriangle" template

2. Select the Text Tool to title your template and to type By: and your name

- Click on the Text Tool
- Choose a font and size
- Type your title at the top of the template between the protractors
- Type By: and your name next to the title

3. Select the Drawing Tool to draw a right, acute, and obtuse angle on the protractors

- Click on the Drawing Tool
- Choose the pencil, a color, the second size option, and pick the straight line option
- Draw the appropriate angle on each protractor

4. Select the Drawing Tool to draw an obtuse, right, and acute triangle

- Click on the Drawing Tool
- Choose the pencil, a color, and the first size option
- Choose the straight line option or the polygon option
- Draw the appropriate triangle for each box

5. Select the Text Tool to label the angles in each triangle. The three angles of each triangle must equal 180 degrees.

- Click on the Text Tool
- Choose a font and size
- Type the three angles for each triangle in the appropriate place

6. Using the formula for a triangle, type in the area for the lower left triangles

- Click on the Text Tool
- Choose a font and size
- Type the area for each triangle in the appropriate place

7. Select the Fill Bucket to fill in the six triangles

- Click on the Fill Bucket
- Choose a solid, blend or pattern for each triangle
- Click inside to fill

8. Select the Drawing Tool to draw your own triangle in the space provided. Turn your triangle into a piece of land, see example.

- Click on the Drawing Tool
- Choose the pencil, a color, the first size option
- Choose the straight line option or the polygon option
- Click in the space provided and draw a right, obtuse or acute triangle



9. Select the Text Tool to label each angle. Remember that the angles have to equal 180 degrees.

10. Select the Text Tool to label the base and height of your triangle

11. Find the area of your triangle and label it next to your drawing

12. Select the Fill Bucket and fill in your triangle with a solid, blend, or pattern

13. Decorate your triangle with stamps and stickers

To add stickers:

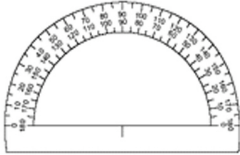
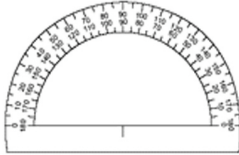
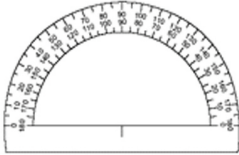
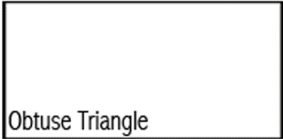

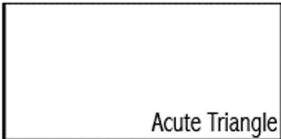
- Click on the Sticker Tool
- Choose a folder of your choice
- Drag the sticker to the right place
- Resize the sticker if needed

To add stamps:

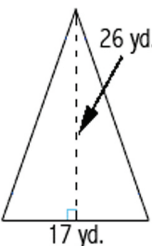
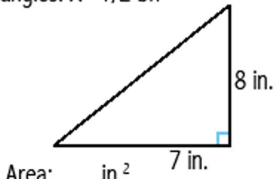

- Click on the Rubber Stamp Tool
- Choose the folder of your choice
- Stamp your picture with the appropriate stamps

14. Save the file or print the picture

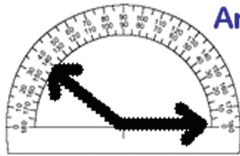
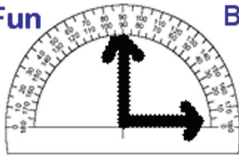
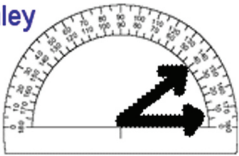
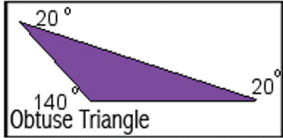

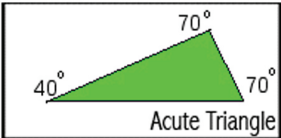
Template

		
Obtuse Angle	Right Angle	Acute Angle
		
Obtuse Triangle	Right Triangle	Acute Triangle

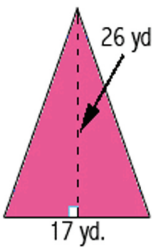


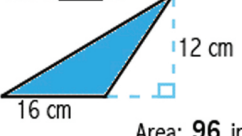
Find the Area of the Triangles: $A = \frac{1}{2} bh$

 <p>Area: ___ yd.²</p>	 <p>Area: ___ in.²</p>	<p>Draw Your Own:</p>
 <p>Area: ___ cm.²</p>		

Example

		
Obtuse Angle	Right Angle	Acute Angle
		
Obtuse Triangle	Right Triangle	Acute Triangle

Find the Area of the Triangles: $A = \frac{1}{2} bh$

 <p>Area: <u>221</u> in.²</p>	 <p>Area: <u>28</u> in.²</p>	<p>Draw Your Own: Equilateral Island</p>  <p>Area: 90 miles²</p>
 <p>Area: <u>96</u> in.²</p>		