






## Congruent Triangles Student Worksheet

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To click on an object, use . If you need to grab an object to move it, hold  for a two second count.

To open the file press  and click on 7:My Documents.

Click congruent\_triangles.

To advance to a new page of the document, press  . The page number 1.1,1.2, etc. appears at the top of your screen. The one not highlighted is the current page.

To scroll down on a page press the down arrow.

If a page is a split screen between two applications, toggle back and forth by pressing  .

Answer all questions on this handout, not the handheld device.

### **Page 1.2**

What are the 6 corresponding parts for the two triangles?

### **Page 1.3**

Are we able to "copy" a triangle if only one pair of corresponding parts are congruent? Explain.

### **Page 1.4**

Can only one distinct triangle be constructed when two pair of corresponding parts are congruent? Explain.

### **Page 1.6**

Sketch each case showing two non-congruent triangles. Be sure to label the congruent corresponding parts. Identify which case (SS, SA, AA) goes with each pair.

### **Page 1.12**

Identify which case (SSA, AAA, ASA, SAS, or SSS) goes with each page. Sketch your results.

Page 1.8 is the \_\_\_\_\_ case.

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Page 1.9 is the \_\_\_\_\_ case.

Page 1.10 is the \_\_\_\_\_ case.

Page 1.11 is the \_\_\_\_\_ case.

**Page 1.14**

Can only one distinct triangle be constructed with the given measures? Sketch your results.

**Page 1.15**

Which cases (SAS, ASA, SSS, AAA, SSA, AAS) for 3 congruent corresponding parts make it possible to construct one distinct triangle?

Explain why SSA is called the "ambiguous case".