

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Area of Scalene Triangle Worksheet**

*Heron's Formula or Hero's Formula:*

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)} \text{ sq. units; where } s = \frac{a+b+c}{2}$$

Problems

Work Space

<p>The sides of the triangle are 3 in, 7 in and 8 in. Find the area using Heron's formula to the nearest tenth.</p> <p>Answer:</p>	
<p>The sides of the triangle are 5 m, 6 m and 7 m. Find the area using Hero's formula to the nearest tenth.</p> <p>Answer:</p>	
<p>The sides of the triangle are 7 cm; 11 cm and 12 cm. Find the area of the scalene triangle to the nearest tenth.</p> <p>Answer:</p>	
<p>The sides of the triangle are 6 in, 16 in and 14 in. Find the area to the nearest tenth.</p> <p>Answer:</p>	

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### Answers

<p>The sides of the triangle are 3 in, 7 in and 8 in. Find the area using Heron's formula to the nearest tenth.</p> <p>Answer: <b>10.4 in<sup>2</sup></b></p>	
<p>The sides of the triangle are 5 m, 6 m and 7 m. Find the area using Hero's formula to the nearest tenth.</p> <p>Answer: <b>14.7 m<sup>2</sup></b></p>	
<p>The sides of the triangle are 7 cm; 11 cm and 12 cm. Find the area of the scalene triangle to the nearest tenth.</p> <p>Answer: <b>37.9 cm<sup>2</sup></b></p>	
<p>The sides of the triangle are 6 in, 16 in and 14 in. Find the area to the nearest tenth.</p> <p>Answer: <b>41.6 in<sup>2</sup></b></p>	