| Na | me Date |
|----|--|
| 1. | If possible, draw and label triangle DEF so that side \overline{DE} is $1\frac{1}{2}$ inches long, side \overline{EF} is 2 inches long, and the measure of the included angle, $\angle E$, is 100° . |
| 2. | Is it possible to draw another triangle so that one side is $1\frac{1}{2}$ inches long, another side is 2 inches long, and the measure of the included angle is 100° while the remaining side and angles have measures different from those of triangle <i>DEF</i> ? Explain. |
| | |

| Name | Date | |
|--|---|--|
| Determine if each set of lengths can be used to construct a triangle. If not, explain why not. | | |
| 1. 5 cm, 8 cm, 12 cm | | |
| 2. 12 in., 12 in., 12 in. | | |
| 3. 3 ft, 6 ft, 10 ft | | |
| 4. In general, what must be true of three le | engths in order for them to construct a triangle? | |