	Identifying Triangle Angles and Lengths Name:	
Determine if the statement is possible(p) or impossible(i).  Answers		
1)	A triangle with the angles: 66°, 20° and 79°.	
2)	A triangle with the angles: 3°, 169° and 8°.	2.
3)	A triangle with the angles: 92°, 46° and 25°.	3.
4)	A triangle with the angles: $28^{\circ}$ , $72^{\circ}$ and $80^{\circ}$ .	4
5)	A triangle with the angles: 41°, 80° and 32°.	5
6)	A triangle with the angles: 1°, 1° and 178°.	6
7)	A triangle with the angles: 22°, 121° and 22°.	7.
8)	A triangle with the angles: 21°, 35° and 103°.	8
9)	A triangle with the angles: $67^{\circ}$ , $43^{\circ}$ and $40^{\circ}$ .	9
10)	A triangle with the angles: 41°, 14° and 125°.	10
11)	A triangle with the sides: 4in, 4in and 6in.	11
12)	A triangle with the sides: 4mm, 4mm and 4mm.	12
13)	A triangle with the sides: 4ft, 8ft and 3ft.	13
14)	A triangle with the sides: 7mm, 6mm and 8mm.	14
15)	A triangle with the sides: 3cm, 9cm and 2cm.	15
16)	A triangle with the sides: 10in, 9in and 11in.	16
<b>17</b> )	A triangle with the sides: 6cm, 8cm and 5cm.	17
18)	A triangle with the sides: 2ft, 2ft and 4ft.	18
		il .

A triangle with the sides: 7mm, 10mm and 6mm.

A triangle with the sides: 4ft, 4ft and 3ft.

## Determine if the statement is possible(p) or impossible(i).

- A triangle with the angles:  $66^{\circ}$ ,  $20^{\circ}$  and  $79^{\circ}$ .
- A triangle with the angles:  $3^{\circ}$ ,  $169^{\circ}$  and  $8^{\circ}$ .
- A triangle with the angles:  $92^{\circ}$ ,  $46^{\circ}$  and  $25^{\circ}$ .
- A triangle with the angles:  $28^{\circ}$ ,  $72^{\circ}$  and  $80^{\circ}$ .
- A triangle with the angles:  $41^{\circ}$ ,  $80^{\circ}$  and  $32^{\circ}$ .
- A triangle with the angles:  $1^{\circ}$ ,  $1^{\circ}$  and  $178^{\circ}$ .
- A triangle with the angles: 22°, 121° and 22°.
- A triangle with the angles: 21°, 35° and 103°.
- A triangle with the angles:  $67^{\circ}$ ,  $43^{\circ}$  and  $40^{\circ}$ .
- A triangle with the angles: 41°, 14° and 125°.
- A triangle with the sides: 4in, 4in and 6in. **11**)
- A triangle with the sides: 4mm, 4mm and 4mm.
- A triangle with the sides: 4ft, 8ft and 3ft.
- A triangle with the sides: 7mm, 6mm and 8mm.
- A triangle with the sides: 3cm, 9cm and 2cm.
- A triangle with the sides: 10in, 9in and 11in.
- A triangle with the sides: 6cm, 8cm and 5cm.
- A triangle with the sides: 2ft, 2ft and 4ft.
- A triangle with the sides: 7mm, 10mm and 6mm. **19**)
- A triangle with the sides: 4ft, 4ft and 3ft.

<u>Answers</u>