Identifying Triangle Angles and Lengths  Name:		
Determine if the statement is possible(p) or impossible(i).  Answers		
1)	A triangle with the angles: $75^{\circ}$ , $60^{\circ}$ and $32^{\circ}$ .	1
2)	A	1.
2)	A triangle with the angles: 74°, 4° and 97°.	2.
3)	A triangle with the angles: 2°, 94° and 58°.	
υ,	If triangle with the angles, 2, 31 and 30.	3
4)	A triangle with the angles: 16°, 104° and 60°.	
		4
5)	A triangle with the angles: $45^{\circ}$ , $20^{\circ}$ and $115^{\circ}$ .	
		5
<b>6</b> )	A triangle with the angles: 57°, 72° and 51°.	6
7)	A 1 1 . 200 . 240 1 1000	6
7)	A triangle with the angles: 26°, 34° and 106°.	7.
8)	A triangle with the angles: 9°, 155° and 16°.	
0)	Transfer with the angles. 7, 133 and 10.	8
9)	A triangle with the angles: 92°, 79° and 6°.	
		9
10)	A triangle with the angles: 35°, 36° and 109°.	
		10
11)	A triangle with the sides: 8ft, 7ft and 6ft.	11
12)	A triangle with the sides: 1 cm, 1 cm and 4 cm	
14)	A triangle with the sides: 1cm, 1cm and 4cm.	12
13)	A triangle with the sides: 9in, 9in and 9in.	
ĺ	, , , , , , , , , , , , , , , , , , , ,	13
14)	A triangle with the sides: 8mm, 8mm and 2mm.	
		14
<b>15</b> )	A triangle with the sides: 4cm, 4cm and 1cm.	15.
10		13
16)	A triangle with the sides: 2mm, 7mm and 1mm.	16.
<b>17</b> )	A triangle with the sides: 6in, 9in and 10in.	
<del></del> -,	12 dialigie with the black only /in that I only	17
18)	A triangle with the sides: 3ft, 6ft and 7ft.	
		18
19)	A triangle with the sides: 5in, 7in and 4in.	10
		19

20.

A triangle with the sides: 5in, 6in and 4in.



Name: Answer Key

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

- 1) A triangle with the angles:  $75^{\circ}$ ,  $60^{\circ}$  and  $32^{\circ}$ .
- 2) A triangle with the angles:  $74^{\circ}$ ,  $4^{\circ}$  and  $97^{\circ}$ .
- 3) A triangle with the angles:  $2^{\circ}$ ,  $94^{\circ}$  and  $58^{\circ}$ .
- 4) A triangle with the angles:  $16^{\circ}$ ,  $104^{\circ}$  and  $60^{\circ}$ .
- 5) A triangle with the angles:  $45^{\circ}$ ,  $20^{\circ}$  and  $115^{\circ}$ .
- 6) A triangle with the angles:  $57^{\circ}$ ,  $72^{\circ}$  and  $51^{\circ}$ .
- 7) A triangle with the angles:  $26^{\circ}$ ,  $34^{\circ}$  and  $106^{\circ}$ .
- 8) A triangle with the angles:  $9^{\circ}$ ,  $155^{\circ}$  and  $16^{\circ}$ .
- 9) A triangle with the angles:  $92^{\circ}$ ,  $79^{\circ}$  and  $6^{\circ}$ .
- **10**) A triangle with the angles:  $35^{\circ}$ ,  $36^{\circ}$  and  $109^{\circ}$ .
- 11) A triangle with the sides: 8ft, 7ft and 6ft.
- **12)** A triangle with the sides: 1cm, 1cm and 4cm.
- **13**) A triangle with the sides: 9in, 9in and 9in.
- **14)** A triangle with the sides: 8mm, 8mm and 2mm.
- **15**) A triangle with the sides: 4cm, 4cm and 1cm.
- **16)** A triangle with the sides: 2mm, 7mm and 1mm.
- 17) A triangle with the sides: 6in, 9in and 10in.
- **18)** A triangle with the sides: 3ft, 6ft and 7ft.
- **19**) A triangle with the sides: 5in, 7in and 4in.
- **20**) A triangle with the sides: 5in, 6in and 4in.

Answers

- 1. \_\_\_\_\_1
- 2 **i**
- 3. **i**
- 4. **p**
- 5. **p**
- 6. **p**
- 7. **i**
- **p**
- o. **p**
- 1. **p**
- 3. **p**
- 4. **\_\_\_\_\_**
- 5. **p**
- 6. **i**
- 17. **p**
- 18. **p**
- 19. **p**
- 20. **p**