	Identifying Triangle Angles and Lengths Name:	
Dete	ermine if the statement is possible(p) or impossible(i).	Answers
1)	A triangle with the angles: 95°, 53° and 32°.	1.
2)	A triangle with the angles: 27°, 75° and 74°.	2.
3)	A triangle with the angles: $102^{\circ}$ , $6^{\circ}$ and $56^{\circ}$ .	3.
4)	A triangle with the angles: $140^{\circ}$ , $35^{\circ}$ and $1^{\circ}$ .	4.
5)	A triangle with the angles: 25°, 8° and 147°.	5.
6)	A triangle with the angles: 14°, 21° and 123°.	6.
7)	A triangle with the angles: 92°, 82° and 6°.	7.
8)	A triangle with the angles: $1^{\circ}$ , $162^{\circ}$ and $17^{\circ}$ .	8.
9)	A triangle with the angles: $24^{\circ}$ , $50^{\circ}$ and $106^{\circ}$ .	9.
10)	A triangle with the angles: 4°, 4° and 156°.	10.
11)	A triangle with the sides: 4in, 2in and 5in.	11.
12)	A triangle with the sides: 10mm, 10mm and 3mm.	12.
13)	A triangle with the sides: 10ft, 9ft and 8ft.	13.
14)	A triangle with the sides: 10in, 10in and 10in.	14
15)	A triangle with the sides: 6ft, 2ft and 1ft.	15.
16)	A triangle with the sides: 3cm, 3cm and 3cm.	16.
17)	A triangle with the sides: 6cm, 5cm and 4cm.	17.
18)	A triangle with the sides: 2mm, 2mm and 3mm.	18.

85 80 Math www.CommonCoreSheets.com 11-20 45 40 35

**19**) A triangle with the sides: 7cm, 7cm and 9cm.

A triangle with the sides: 3in, 2in and 4in.

Name:

- 1) A triangle with the angles: 95°, 53° and 32°.
- 2) A triangle with the angles: 27°, 75° and 74°.
- 3) A triangle with the angles:  $102^{\circ}$ ,  $6^{\circ}$  and  $56^{\circ}$ .
- 4) A triangle with the angles:  $140^{\circ}$ ,  $35^{\circ}$  and  $1^{\circ}$ .
- 5) A triangle with the angles:  $25^{\circ}$ ,  $8^{\circ}$  and  $147^{\circ}$ .
- **6)** A triangle with the angles: 14°, 21° and 123°.
- 7) A triangle with the angles:  $92^{\circ}$ ,  $82^{\circ}$  and  $6^{\circ}$ .
- 8) A triangle with the angles:  $1^{\circ}$ ,  $162^{\circ}$  and  $17^{\circ}$ .
- 9) A triangle with the angles:  $24^{\circ}$ ,  $50^{\circ}$  and  $106^{\circ}$ .
- **10**) A triangle with the angles:  $4^{\circ}$ ,  $4^{\circ}$  and  $156^{\circ}$ .
- 11) A triangle with the sides: 4in, 2in and 5in.
- **12)** A triangle with the sides: 10mm, 10mm and 3mm.
- **13**) A triangle with the sides: 10ft, 9ft and 8ft.
- **14)** A triangle with the sides: 10in, 10in and 10in.
- **15**) A triangle with the sides: 6ft, 2ft and 1ft.
- **16)** A triangle with the sides: 3cm, 3cm and 3cm.
- 17) A triangle with the sides: 6cm, 5cm and 4cm.
- **18**) A triangle with the sides: 2mm, 2mm and 3mm.
- **19**) A triangle with the sides: 7cm, 7cm and 9cm.
- **20**) A triangle with the sides: 3in, 2in and 4in.

$\mathbf{A}$	n s	w	e	rs

- 1. **p**
- a i
- **. i**
- 4. \_\_\_\_**i**
- 5. **p**
- 6. **i**
- p
- **p**
- p
- ). **i**
- 1. **\_\_\_\_\_p**
- 2. **p**
- 3. **p**
- 14. **p**
- 6. **p**
- 17. **p**
- 18. **p**
- 19. **p**
- 20 **D**