



Identifying Triangle Angles and Lengths

Name: _____

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

- 1) A triangle with the angles: 6° , 19° and 129° .
- 2) A triangle with the angles: 89° , 52° and 39° .
- 3) A triangle with the angles: 12° , 42° and 123° .
- 4) A triangle with the angles: 47° , 6° and 127° .
- 5) A triangle with the angles: 118° , 25° and 37° .
- 6) A triangle with the angles: 110° , 16° and 53° .
- 7) A triangle with the angles: 13° , 47° and 119° .
- 8) A triangle with the angles: 80° , 48° and 29° .
- 9) A triangle with the angles: 78° , 47° and 55° .
- 10) A triangle with the angles: 19° , 54° and 94° .
- 11) A triangle with the sides: 5ft, 9ft and 4ft.
- 12) A triangle with the sides: 4cm, 9cm and 3cm.
- 13) A triangle with the sides: 2ft, 2ft and 1ft.
- 14) A triangle with the sides: 9cm, 7cm and 6cm.
- 15) A triangle with the sides: 3ft, 10ft and 2ft.
- 16) A triangle with the sides: 4ft, 2ft and 5ft.
- 17) A triangle with the sides: 2mm, 2mm and 2mm.
- 18) A triangle with the sides: 3cm, 9cm and 2cm.
- 19) A triangle with the sides: 10ft, 10ft and 10ft.
- 20) A triangle with the sides: 10in, 2in and 11in.

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



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

1) A triangle with the angles: 6° , 19° and 129° .

1. **i**

2) A triangle with the angles: 89° , 52° and 39° .

2. **p**

3) A triangle with the angles: 12° , 42° and 123° .

3. **i**

4) A triangle with the angles: 47° , 6° and 127° .

4. **p**

5) A triangle with the angles: 118° , 25° and 37° .

5. **p**

6) A triangle with the angles: 110° , 16° and 53° .

6. **i**

7) A triangle with the angles: 13° , 47° and 119° .

7. **i**

8) A triangle with the angles: 80° , 48° and 29° .

8. **i**

9) A triangle with the angles: 78° , 47° and 55° .

9. **p**

10) A triangle with the angles: 19° , 54° and 94° .

10. **i**

11) A triangle with the sides: 5ft, 9ft and 4ft.

11. **i**

12) A triangle with the sides: 4cm, 9cm and 3cm.

12. **i**

13) A triangle with the sides: 2ft, 2ft and 1ft.

13. **p**

14) A triangle with the sides: 9cm, 7cm and 6cm.

14. **p**

15) A triangle with the sides: 3ft, 10ft and 2ft.

15. **i**

16) A triangle with the sides: 4ft, 2ft and 5ft.

16. **p**

17) A triangle with the sides: 2mm, 2mm and 2mm.

17. **p**

18) A triangle with the sides: 3cm, 9cm and 2cm.

18. **i**

19) A triangle with the sides: 10ft, 10ft and 10ft.

19. **p**

20) A triangle with the sides: 10in, 2in and 11in.

20. **p**

Answers