



Identifying Triangle Angles and Lengths

Name: _____

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

- 1) A triangle with the angles: 121° , 12° and 47° .
- 2) A triangle with the angles: 1° , 5° and 174° .
- 3) A triangle with the angles: 67° , 2° and 102° .
- 4) A triangle with the angles: 15° , 38° and 127° .
- 5) A triangle with the angles: 45° , 14° and 101° .
- 6) A triangle with the angles: 16° , 112° and 52° .
- 7) A triangle with the angles: 25° , 141° and 14° .
- 8) A triangle with the angles: 5° , 144° and 31° .
- 9) A triangle with the angles: 133° , 9° and 34° .
- 10) A triangle with the angles: 76° , 50° and 26° .
- 11) A triangle with the sides: 3mm, 8mm and 2mm.
- 12) A triangle with the sides: 9mm, 5mm and 4mm.
- 13) A triangle with the sides: 8ft, 3ft and 9ft.
- 14) A triangle with the sides: 8ft, 2ft and 1ft.
- 15) A triangle with the sides: 10in, 2in and 1in.
- 16) A triangle with the sides: 3in, 3in and 1in.
- 17) A triangle with the sides: 6mm, 8mm and 5mm.
- 18) A triangle with the sides: 5cm, 3cm and 2cm.
- 19) A triangle with the sides: 10cm, 3cm and 2cm.
- 20) A triangle with the sides: 2mm, 10mm and 11mm.

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: 121° , 12° and 47° .

1. **p**

2) A triangle with the angles: 1° , 5° and 174° .

2. **p**

3) A triangle with the angles: 67° , 2° and 102° .

3. **i**

4) A triangle with the angles: 15° , 38° and 127° .

4. **p**

5) A triangle with the angles: 45° , 14° and 101° .

5. **i**

6) A triangle with the angles: 16° , 112° and 52° .

6. **p**

7) A triangle with the angles: 25° , 141° and 14° .

7. **p**

8) A triangle with the angles: 5° , 144° and 31° .

8. **p**

9) A triangle with the angles: 133° , 9° and 34° .

9. **i**

10) A triangle with the angles: 76° , 50° and 26° .

10. **i**

11) A triangle with the sides: 3mm, 8mm and 2mm.

11. **i**

12) A triangle with the sides: 9mm, 5mm and 4mm.

12. **i**

13) A triangle with the sides: 8ft, 3ft and 9ft.

13. **p**

14) A triangle with the sides: 8ft, 2ft and 1ft.

14. **i**

15) A triangle with the sides: 10in, 2in and 1in.

15. **i**

16) A triangle with the sides: 3in, 3in and 1in.

16. **p**

17) A triangle with the sides: 6mm, 8mm and 5mm.

17. **p**

18) A triangle with the sides: 5cm, 3cm and 2cm.

18. **i**

19) A triangle with the sides: 10cm, 3cm and 2cm.

19. **i**

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

20. **p**

Answers