



Identifying Triangle Angles and Lengths

Name: _____

Determine if the statement is possible(p) or impossible(i).1) A triangle with the angles: 42° , 36° and 102° .

1. _____

2) A triangle with the angles: 42° , 81° and 57° .

2. _____

3) A triangle with the angles: 136° , 12° and 17° .

3. _____

4) A triangle with the angles: 70° , 3° and 107° .

4. _____

5) A triangle with the angles: 16° , 123° and 41° .

5. _____

6) A triangle with the angles: 19° , 38° and 123° .

6. _____

7) A triangle with the angles: 122° , 16° and 33° .

7. _____

8) A triangle with the angles: 135° , 19° and 6° .

8. _____

9) A triangle with the angles: 60° , 44° and 57° .

9. _____

10) A triangle with the angles: 20° , 120° and 14° .

10. _____

11) A triangle with the sides: 7ft, 10ft and 11ft.

11. _____

12) A triangle with the sides: 4cm, 4cm and 8cm.

12. _____

13) A triangle with the sides: 2ft, 7ft and 1ft.

13. _____

14) A triangle with the sides: 9mm, 9mm and 9mm.

14. _____

15) A triangle with the sides: 4ft, 4ft and 6ft.

15. _____

16) A triangle with the sides: 6cm, 6cm and 5cm.

16. _____

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

17. _____

18) A triangle with the sides: 7ft, 5ft and 8ft.

18. _____

19) A triangle with the sides: 9in, 4in and 3in.

19. _____

20) A triangle with the sides: 4in, 6in and 3in.

20. _____

Answers



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

- 1) A triangle with the angles: 42° , 36° and 102° .
- 2) A triangle with the angles: 42° , 81° and 57° .
- 3) A triangle with the angles: 136° , 12° and 17° .
- 4) A triangle with the angles: 70° , 3° and 107° .
- 5) A triangle with the angles: 16° , 123° and 41° .
- 6) A triangle with the angles: 19° , 38° and 123° .
- 7) A triangle with the angles: 122° , 16° and 33° .
- 8) A triangle with the angles: 135° , 19° and 6° .
- 9) A triangle with the angles: 60° , 44° and 57° .
- 10) A triangle with the angles: 20° , 120° and 14° .
- 11) A triangle with the sides: 7ft, 10ft and 11ft.
- 12) A triangle with the sides: 4cm, 4cm and 8cm.
- 13) A triangle with the sides: 2ft, 7ft and 1ft.
- 14) A triangle with the sides: 9mm, 9mm and 9mm.
- 15) A triangle with the sides: 4ft, 4ft and 6ft.
- 16) A triangle with the sides: 6cm, 6cm and 5cm.
- 17) A triangle with the sides: 1ft, 1ft and 1ft.
- 18) A triangle with the sides: 7ft, 5ft and 8ft.
- 19) A triangle with the sides: 9in, 4in and 3in.
- 20) A triangle with the sides: 4in, 6in and 3in.

Answers

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