Identifying Triangle Angles and Lengths   Name:

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

1) A triangle with the angles: 52°, 9° and 109°.

1. _____

2) A triangle with the angles: 137°, 34° and 9°.

2. _____

3) A triangle with the angles: 62°, 8° and 97°.

3. _____

4) A triangle with the angles: 21°, 117° and 42°.

4. _____

5) A triangle with the angles: 61°, 92° and 27°.

5. _____

6) A triangle with the angles: 108°, 20° and 52°.

6. _____

7) A triangle with the angles: 56°, 22° and 85°.

7. _____

8) A triangle with the angles: 12°, 21° and 139°.

8. _____

9) A triangle with the angles: 90°, 86° and 4°.

9. _____

10) A triangle with the angles: 60°, 81° and 12°.

10. _____

11) A triangle with the sides: 5cm, 7cm and 4cm.

11. _____

12) A triangle with the sides: 10ft, 9ft and 8ft.

12. _____

13) A triangle with the sides: 10ft, 6ft and 5ft.

13. _____

14) A triangle with the sides: 2cm, 6cm and 1cm.

14. _____

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

15. _____

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

16. _____

17) A triangle with the sides: 8ft, 8ft and 8ft.

17. _____

18) A triangle with the sides: 4mm, 7mm and 3mm.

18. _____

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

19. _____

20) A triangle with the sides: 1in, 1in and 5in.

20. _____

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1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

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

Answers

1) A triangle with the angles: 52°, 9° and 109°.

1. **i**

2) A triangle with the angles: 137°, 34° and 9°.

2. **p**

3) A triangle with the angles: 62°, 8° and 97°.

3. **i**

4) A triangle with the angles: 21°, 117° and 42°.

4. **p**

5) A triangle with the angles: 61°, 92° and 27°.

5. **p**

6) A triangle with the angles: 108°, 20° and 52°.

6. **p**

7) A triangle with the angles: 56°, 22° and 85°.

7. **i**

8) A triangle with the angles: 12°, 21° and 139°.

8. **i**

9) A triangle with the angles: 90°, 86° and 4°.

9. **p**

10) A triangle with the angles: 60°, 81° and 12°.

10. **i**

11) A triangle with the sides: 5cm, 7cm and 4cm.

11. **p**

12) A triangle with the sides: 10ft, 9ft and 8ft.

12. **p**

13) A triangle with the sides: 10ft, 6ft and 5ft.

13. **p**

14) A triangle with the sides: 2cm, 6cm and 1cm.

14. **i**

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

15. **i**

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

16. **i**

17) A triangle with the sides: 8ft, 8ft and 8ft.

17. **p**

18) A triangle with the sides: 4mm, 7mm and 3mm.

18. **i**

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

19. **p**

20) A triangle with the sides: 1in, 1in and 5in.

20. **i**

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