Identifying Triangle Angles and Lengths

Name: _____

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

1) A triangle with the angles: 42°, 25° and 113°.

2) A triangle with the angles: 31°, 2° and 145°.

3) A triangle with the angles: 41°, 113° and 26°.

4) A triangle with the angles: 49°, 34° and 96°.

5) A triangle with the angles: 57°, 16° and 83°.

6) A triangle with the angles: 9°, 129° and 42°.

7) A triangle with the angles: 75°, 60° and 45°.

8) A triangle with the angles: 109°, 24° and 35°.

9) A triangle with the angles: 36°, 39° and 81°.

10) A triangle with the angles: 104°, 2° and 68°.

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

12) A triangle with the sides: 3in, 5in and 2in.

13) A triangle with the sides: 10ft, 4ft and 11ft.

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

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

16) A triangle with the sides: 9cm, 10cm and 8cm.

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

18) A triangle with the sides: 9cm, 9cm and 8cm.

19) A triangle with the sides: 8ft, 4ft and 3ft.

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

Math

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

Name:

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

Answers

1) A triangle with the angles: 42°, 25° and 113°.

1. _____ **p**

2) A triangle with the angles: 31°, 2° and 145°.

2. _____ **i**

3) A triangle with the angles: 41°, 113° and 26°.

3. _____ **p**

4) A triangle with the angles: 49°, 34° and 96°.

4. _____ **i**

5) A triangle with the angles: 57°, 16° and 83°.

5. _____ **i**

6) A triangle with the angles: 9°, 129° and 42°.

6. _____ **p**

7) A triangle with the angles: 75°, 60° and 45°.

7. _____ **p**

8) A triangle with the angles: 109°, 24° and 35°.

8. _____ **i**

9) A triangle with the angles: 36°, 39° and 81°.

9. _____ **i**

10) A triangle with the angles: 104°, 2° and 68°.

10. _____ **i**

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

11. _____ **i**

12) A triangle with the sides: 3in, 5in and 2in.

12. _____ **i**

13) A triangle with the sides: 10ft, 4ft and 11ft.

13. _____ **p**

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

14. _____ **p**

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

15. _____ **p**

16) A triangle with the sides: 9cm, 10cm and 8cm.

16. _____ **p**

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

17. _____ **i**

18) A triangle with the sides: 9cm, 9cm and 8cm.

18. _____ **p**

19) A triangle with the sides: 8ft, 4ft and 3ft.

19. _____ **i**

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

20. _____ **p**

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11-20	45	40	35	30	25	20	15	10	5	0