Identifying Triangle Angles and Lengths

Name: _____

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

1) A triangle with the angles: 161°, 6° and 6°.

2) A triangle with the angles: 134°, 29° and 17°.

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

4) A triangle with the angles: 16°, 14° and 150°.

5) A triangle with the angles: 3°, 75° and 102°.

6) A triangle with the angles: 1°, 3° and 153°.

7) A triangle with the angles: 20°, 145° and 15°.

8) A triangle with the angles: 83°, 78° and 19°.

9) A triangle with the angles: 40°, 122° and 18°.

10) A triangle with the angles: 61°, 44° and 64°.

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

12) A triangle with the sides: 9in, 8in and 7in.

13) A triangle with the sides: 1cm, 1cm and 8cm.

14) A triangle with the sides: 7cm, 3cm and 2cm.

15) A triangle with the sides: 10in, 7in and 6in.

16) A triangle with the sides: 6cm, 4cm and 3cm.

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

18) A triangle with the sides: 6mm, 7mm and 5mm.

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

20) A triangle with the sides: 7ft, 6ft and 5ft.

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: **Answer Key**

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

Answers

1) A triangle with the angles: 161°, 6° and 6°.

1. **i**

2) A triangle with the angles: 134°, 29° and 17°.

2. **p**

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

3. **p**

4) A triangle with the angles: 16°, 14° and 150°.

4. **p**

5) A triangle with the angles: 3°, 75° and 102°.

5. **p**

6) A triangle with the angles: 1°, 3° and 153°.

6. **i**

7) A triangle with the angles: 20°, 145° and 15°.

7. **p**

8) A triangle with the angles: 83°, 78° and 19°.

8. **p**

9) A triangle with the angles: 40°, 122° and 18°.

9. **p**

10) A triangle with the angles: 61°, 44° and 64°.

10. **i**

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

11. **p**

12) A triangle with the sides: 9in, 8in and 7in.

12. **p**

13) A triangle with the sides: 1cm, 1cm and 8cm.

13. **i**

14) A triangle with the sides: 7cm, 3cm and 2cm.

14. **i**

15) A triangle with the sides: 10in, 7in and 6in.

15. **p**

16) A triangle with the sides: 6cm, 4cm and 3cm.

16. **p**

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

17. **p**

18) A triangle with the sides: 6mm, 7mm and 5mm.

18. **p**

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

19. **p**

20) A triangle with the sides: 7ft, 6ft and 5ft.

20. **p**

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