Identifying Triangle Angles and Lengths

Name:

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

1) A triangle with the angles: 33°, 82° and 47°.

1. _____

2) A triangle with the angles: 4°, 130° and 31°.

2. _____

3) A triangle with the angles: 41°, 23° and 97°.

3. _____

4) A triangle with the angles: 20°, 125° and 6°.

4. _____

5) A triangle with the angles: 18°, 58° and 100°.

5. _____

6) A triangle with the angles: 11°, 160° and 9°.

6. _____

7) A triangle with the angles: 57°, 59° and 58°.

7. _____

8) A triangle with the angles: 62°, 26° and 92°.

8. _____

9) A triangle with the angles: 64°, 99° and 17°.

9. _____

10) A triangle with the angles: 1°, 3° and 157°.

10. _____

11) A triangle with the sides: 5cm, 8cm and 4cm.

11. _____

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

12. _____

13) A triangle with the sides: 3ft, 4ft and 5ft.

13. _____

14) A triangle with the sides: 6mm, 8mm and 9mm.

14. _____

15) A triangle with the sides: 8in, 5in and 4in.

15. _____

16) A triangle with the sides: 4mm, 5mm and 3mm.

16. _____

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

17. _____

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

18. _____

19) A triangle with the sides: 6ft, 2ft and 1ft.

19. _____

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

20. _____

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: 33°, 82° and 47°.

1. ___**i**___

2) A triangle with the angles: 4°, 130° and 31°.

2. ___**i**___

3) A triangle with the angles: 41°, 23° and 97°.

3. ___**i**___

4) A triangle with the angles: 20°, 125° and 6°.

4. ___**i**___

5) A triangle with the angles: 18°, 58° and 100°.

5. ___**i**___

6) A triangle with the angles: 11°, 160° and 9°.

6. ___**p**___

7) A triangle with the angles: 57°, 59° and 58°.

7. ___**i**___

8) A triangle with the angles: 62°, 26° and 92°.

8. ___**p**___

9) A triangle with the angles: 64°, 99° and 17°.

9. ___**p**___

10) A triangle with the angles: 1°, 3° and 157°.

10. ___**i**___

11) A triangle with the sides: 5cm, 8cm and 4cm.

11. ___**p**___

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

12. ___**i**___

13) A triangle with the sides: 3ft, 4ft and 5ft.

13. ___**p**___

14) A triangle with the sides: 6mm, 8mm and 9mm.

14. ___**p**___

15) A triangle with the sides: 8in, 5in and 4in.

15. ___**p**___

16) A triangle with the sides: 4mm, 5mm and 3mm.

16. ___**p**___

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

17. ___**p**___

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

18. ___**p**___

19) A triangle with the sides: 6ft, 2ft and 1ft.

19. ___**i**___

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

20. ___**p**___

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