Name: _____

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

Answers

1) A triangle with the angles: 88°, 16° and 65°

1. _____

2) A triangle with the angles: 13°, 18° and 127°

2. _____

3) A triangle with the angles: 83°, 51° and 31°

3. _____

4) A triangle with the angles: 12°, 5° and 145°

4. _____

5) A triangle with the angles: 26°, 125° and 8°

5. _____

6) A triangle with the angles: 79°, 82° and 4°

6. _____

7) A triangle with the angles: 22°, 151° and 7°

7. _____

8) A triangle with the angles: 96°, 34° and 25°

8. _____

9) A triangle with the angles: 25°, 145° and 10°

9. _____

10) A triangle with the angles: 129°, 4° and 41°

10. _____

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

11. _____

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

12. _____

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

13. _____

14) A triangle with the sides: 6cm., 3cm. and 7cm.

14. _____

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

15. _____

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

16. _____

17) A triangle with the sides: 8cm., 8cm. and 7cm.

17. _____

18) A triangle with the sides: 10in., 10in. and 8in.

18. _____

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

19. _____

20) A triangle with the sides: 4mm., 9mm. and 3mm.

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

Name: **Answer Key**

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

Answers

1) A triangle with the angles: 88°, 16° and 65°

1. **i**

2) A triangle with the angles: 13°, 18° and 127°

2. **i**

3) A triangle with the angles: 83°, 51° and 31°

3. **i**

4) A triangle with the angles: 12°, 5° and 145°

4. **i**

5) A triangle with the angles: 26°, 125° and 8°

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6) A triangle with the angles: 79°, 82° and 4°

6. **i**

7) A triangle with the angles: 22°, 151° and 7°

7. **p**

8) A triangle with the angles: 96°, 34° and 25°

8. **i**

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

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14) A triangle with the sides: 6cm., 3cm. and 7cm.

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

15. **p**

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

16. **p**

17) A triangle with the sides: 8cm., 8cm. and 7cm.

17. **p**

18) A triangle with the sides: 10in., 10in. and 8in.

18. **p**

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

19. **p**

20) A triangle with the sides: 4mm., 9mm. and 3mm.

20. **i**

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