Identifying Triangle Angles and Lengths

Name:

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

1) A triangle with the angles: 28°, 80° and 54°.

2) A triangle with the angles: 93°, 55° and 32°.

3) A triangle with the angles: 13°, 3° and 164°.

4) A triangle with the angles: 13°, 128° and 39°.

5) A triangle with the angles: 43°, 56° and 81°.

6) A triangle with the angles: 62°, 55° and 57°.

7) A triangle with the angles: 94°, 21° and 48°.

8) A triangle with the angles: 37°, 57° and 73°.

9) A triangle with the angles: 76°, 43° and 38°.

10) A triangle with the angles: 107°, 50° and 23°.

11) A triangle with the sides: 2mm, 3mm and 4mm.

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

13) A triangle with the sides: 3in, 3in and 7in.

14) A triangle with the sides: 7ft, 10ft and 6ft.

15) A triangle with the sides: 4cm, 8cm and 3cm.

16) A triangle with the sides: 6in, 6in and 5in.

17) A triangle with the sides: 9cm, 3cm and 2cm.

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

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

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

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
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

Identifying Triangle Angles and Lengths Name: **Answer Key**

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

Answers

1. i
2. p
3. p
4. p
5. p
6. i
7. i
8. i
9. i
10. p
11. p
12. p
13. i
14. p
15. i
16. p
17. i
18. i
19. p
20. i

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