



Identifying Triangle Angles and Lengths

Name: _____

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

- 1) A triangle with the angles: 10° , 1° and 156° .
- 2) A triangle with the angles: 26° , 152° and 2° .
- 3) A triangle with the angles: 87° , 7° and 86° .
- 4) A triangle with the angles: 26° , 17° and 133° .
- 5) A triangle with the angles: 36° , 124° and 12° .
- 6) A triangle with the angles: 125° , 30° and 2° .
- 7) A triangle with the angles: 117° , 38° and 25° .
- 8) A triangle with the angles: 113° , 29° and 22° .
- 9) A triangle with the angles: 8° , 4° and 168° .
- 10) A triangle with the angles: 39° , 93° and 32° .
- 11) A triangle with the sides: 2mm, 10mm and 1mm.
- 12) A triangle with the sides: 2in, 7in and 1in.
- 13) A triangle with the sides: 8mm, 8mm and 8mm.
- 14) A triangle with the sides: 5in, 4in and 3in.
- 15) A triangle with the sides: 3mm, 3mm and 2mm.
- 16) A triangle with the sides: 7cm, 7cm and 1cm.
- 17) A triangle with the sides: 8ft, 8ft and 3ft.
- 18) A triangle with the sides: 8ft, 5ft and 4ft.
- 19) A triangle with the sides: 9ft, 9ft and 9ft.
- 20) A triangle with the sides: 7cm, 8cm and 6cm.

Answers

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



Identifying Triangle Angles and Lengths

Name: **Answer Key**

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

- 1) A triangle with the angles: 10° , 1° and 156° . i
- 2) A triangle with the angles: 26° , 152° and 2° . p
- 3) A triangle with the angles: 87° , 7° and 86° . p
- 4) A triangle with the angles: 26° , 17° and 133° . i
- 5) A triangle with the angles: 36° , 124° and 12° . i
- 6) A triangle with the angles: 125° , 30° and 2° . i
- 7) A triangle with the angles: 117° , 38° and 25° . p
- 8) A triangle with the angles: 113° , 29° and 22° . i
- 9) A triangle with the angles: 8° , 4° and 168° . p
- 10) A triangle with the angles: 39° , 93° and 32° . i
- 11) A triangle with the sides: 2mm, 10mm and 1mm. i
- 12) A triangle with the sides: 2in, 7in and 1in. i
- 13) A triangle with the sides: 8mm, 8mm and 8mm. p
- 14) A triangle with the sides: 5in, 4in and 3in. p
- 15) A triangle with the sides: 3mm, 3mm and 2mm. p
- 16) A triangle with the sides: 7cm, 7cm and 1cm. p
- 17) A triangle with the sides: 8ft, 8ft and 3ft. p
- 18) A triangle with the sides: 8ft, 5ft and 4ft. p
- 19) A triangle with the sides: 9ft, 9ft and 9ft. p
- 20) A triangle with the sides: 7cm, 8cm and 6cm. p

Answers

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