



Identifying Triangle Angles and Lengths

Name: _____

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

- 1) A triangle with the angles: 7° , 14° and 148° .
- 2) A triangle with the angles: 80° , 88° and 12° .
- 3) A triangle with the angles: 26° , 3° and 126° .
- 4) A triangle with the angles: 99° , 42° and 39° .
- 5) A triangle with the angles: 4° , 137° and 39° .
- 6) A triangle with the angles: 57° , 119° and 4° .
- 7) A triangle with the angles: 33° , 69° and 56° .
- 8) A triangle with the angles: 66° , 92° and 22° .
- 9) A triangle with the angles: 6° , 171° and 3° .
- 10) A triangle with the angles: 32° , 63° and 85° .
- 11) A triangle with the sides: 9ft, 3ft and 10ft.
- 12) A triangle with the sides: 2cm, 5cm and 6cm.
- 13) A triangle with the sides: 7mm, 7mm and 3mm.
- 14) A triangle with the sides: 7in, 4in and 3in.
- 15) A triangle with the sides: 4mm, 5mm and 3mm.
- 16) A triangle with the sides: 2ft, 2ft and 2ft.
- 17) A triangle with the sides: 3ft, 10ft and 2ft.
- 18) A triangle with the sides: 4cm, 7cm and 3cm.
- 19) A triangle with the sides: 3cm, 6cm and 2cm.
- 20) A triangle with the sides: 10cm, 10cm and 1cm.

Answers

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



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- 1) A triangle with the angles: 7° , 14° and 148° . i
- 2) A triangle with the angles: 80° , 88° and 12° . p
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- 12) A triangle with the sides: 2cm, 5cm and 6cm. p
- 13) A triangle with the sides: 7mm, 7mm and 3mm. p
- 14) A triangle with the sides: 7in, 4in and 3in. i
- 15) A triangle with the sides: 4mm, 5mm and 3mm. p
- 16) A triangle with the sides: 2ft, 2ft and 2ft. p
- 17) A triangle with the sides: 3ft, 10ft and 2ft. i
- 18) A triangle with the sides: 4cm, 7cm and 3cm. i
- 19) A triangle with the sides: 3cm, 6cm and 2cm. i
- 20) A triangle with the sides: 10cm, 10cm and 1cm. p

Answers

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