



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

Answers

- 1) A triangle with the angles: 148° , 11° and 10° .
- 2) A triangle with the angles: 126° , 11° and 43° .
- 3) A triangle with the angles: 43° , 34° and 75° .
- 4) A triangle with the angles: 30° , 1° and 149° .
- 5) A triangle with the angles: 42° , 40° and 68° .
- 6) A triangle with the angles: 111° , 32° and 21° .
- 7) A triangle with the angles: 73° , 22° and 85° .
- 8) A triangle with the angles: 22° , 90° and 68° .
- 9) A triangle with the angles: 32° , 19° and 129° .
- 10) A triangle with the angles: 101° , 21° and 52° .
- 11) A triangle with the sides: 6ft, 9ft and 5ft.
- 12) A triangle with the sides: 3ft, 3ft and 6ft.
- 13) A triangle with the sides: 2mm, 2mm and 9mm.
- 14) A triangle with the sides: 4in, 2in and 5in.
- 15) A triangle with the sides: 4mm, 6mm and 3mm.
- 16) A triangle with the sides: 3cm, 2cm and 1cm.
- 17) A triangle with the sides: 4mm, 4mm and 7mm.
- 18) A triangle with the sides: 3in, 3in and 5in.
- 19) A triangle with the sides: 2in, 2in and 6in.
- 20) A triangle with the sides: 10in, 10in and 6in.

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

- 1) A triangle with the angles: 148° , 11° and 10° .
- 2) A triangle with the angles: 126° , 11° and 43° .
- 3) A triangle with the angles: 43° , 34° and 75° .
- 4) A triangle with the angles: 30° , 1° and 149° .
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- 16) A triangle with the sides: 3cm, 2cm and 1cm.
- 17) A triangle with the sides: 4mm, 4mm and 7mm.
- 18) A triangle with the sides: 3in, 3in and 5in.
- 19) A triangle with the sides: 2in, 2in and 6in.
- 20) A triangle with the sides: 10in, 10in and 6in.

Answers

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



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

Answers

- 1) A triangle with the angles: 120° , 33° and 27° .
- 2) A triangle with the angles: 96° , 15° and 69° .
- 3) A triangle with the angles: 13° , 57° and 110° .
- 4) A triangle with the angles: 54° , 41° and 83° .
- 5) A triangle with the angles: 159° , 20° and 1° .
- 6) A triangle with the angles: 125° , 10° and 32° .
- 7) A triangle with the angles: 155° , 11° and 7° .
- 8) A triangle with the angles: 128° , 2° and 42° .
- 9) A triangle with the angles: 65° , 90° and 17° .
- 10) A triangle with the angles: 89° , 43° and 48° .
- 11) A triangle with the sides: 6ft, 6ft and 6ft.
- 12) A triangle with the sides: 9ft, 3ft and 2ft.
- 13) A triangle with the sides: 6in, 6in and 6in.
- 14) A triangle with the sides: 3ft, 4ft and 2ft.
- 15) A triangle with the sides: 5in, 5in and 4in.
- 16) A triangle with the sides: 5in, 10in and 4in.
- 17) A triangle with the sides: 9mm, 9mm and 5mm.
- 18) A triangle with the sides: 4mm, 10mm and 3mm.
- 19) A triangle with the sides: 1ft, 1ft and 1ft.
- 20) A triangle with the sides: 6ft, 3ft and 7ft.

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- 1) A triangle with the angles: 120° , 33° and 27° .
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- 5) A triangle with the angles: 159° , 20° and 1° .
- 6) A triangle with the angles: 125° , 10° and 32° .
- 7) A triangle with the angles: 155° , 11° and 7° .
- 8) A triangle with the angles: 128° , 2° and 42° .
- 9) A triangle with the angles: 65° , 90° and 17° .
- 10) A triangle with the angles: 89° , 43° and 48° .
- 11) A triangle with the sides: 6ft, 6ft and 6ft.
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- 13) A triangle with the sides: 6in, 6in and 6in.
- 14) A triangle with the sides: 3ft, 4ft and 2ft.
- 15) A triangle with the sides: 5in, 5in and 4in.
- 16) A triangle with the sides: 5in, 10in and 4in.
- 17) A triangle with the sides: 9mm, 9mm and 5mm.
- 18) A triangle with the sides: 4mm, 10mm and 3mm.
- 19) A triangle with the sides: 1ft, 1ft and 1ft.
- 20) A triangle with the sides: 6ft, 3ft and 7ft.

Answers

1. **p**
2. **p**
3. **p**
4. **i**
5. **p**
6. **i**
7. **i**
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12. **i**
13. **p**
14. **p**
15. **p**
16. **i**
17. **p**
18. **i**
19. **p**
20. **p**



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

Answers

- 1) A triangle with the angles: 56° , 67° and 49° .
- 2) A triangle with the angles: 104° , 39° and 37° .
- 3) A triangle with the angles: 11° , 6° and 141° .
- 4) A triangle with the angles: 19° , 51° and 97° .
- 5) A triangle with the angles: 19° , 129° and 32° .
- 6) A triangle with the angles: 45° , 56° and 79° .
- 7) A triangle with the angles: 99° , 58° and 23° .
- 8) A triangle with the angles: 19° , 102° and 30° .
- 9) A triangle with the angles: 15° , 60° and 105° .
- 10) A triangle with the angles: 3° , 75° and 102° .
- 11) A triangle with the sides: 5cm, 7cm and 4cm.
- 12) A triangle with the sides: 4cm, 8cm and 3cm.
- 13) A triangle with the sides: 8ft, 8ft and 8ft.
- 14) A triangle with the sides: 5cm, 5cm and 4cm.
- 15) A triangle with the sides: 6in, 5in and 4in.
- 16) A triangle with the sides: 4ft, 9ft and 3ft.
- 17) A triangle with the sides: 4cm, 10cm and 3cm.
- 18) A triangle with the sides: 7in, 7in and 6in.
- 19) A triangle with the sides: 7ft, 2ft and 1ft.
- 20) A triangle with the sides: 6ft, 6ft and 5ft.

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- 18) A triangle with the sides: 7in, 7in and 6in.
- 19) A triangle with the sides: 7ft, 2ft and 1ft.
- 20) A triangle with the sides: 6ft, 6ft and 5ft.

Answers

1. **i**
2. **p**
3. **i**
4. **i**
5. **p**
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12. **i**
13. **p**
14. **p**
15. **p**
16. **i**
17. **i**
18. **p**
19. **i**
20. **p**



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

Answers

- 1) A triangle with the angles: 5° , 113° and 41° .
- 2) A triangle with the angles: 34° , 7° and 109° .
- 3) A triangle with the angles: 122° , 9° and 44° .
- 4) A triangle with the angles: 82° , 75° and 23° .
- 5) A triangle with the angles: 46° , 4° and 117° .
- 6) A triangle with the angles: 4° , 55° and 95° .
- 7) A triangle with the angles: 134° , 39° and 7° .
- 8) A triangle with the angles: 38° , 1° and 141° .
- 9) A triangle with the angles: 62° , 50° and 43° .
- 10) A triangle with the angles: 33° , 17° and 130° .
- 11) A triangle with the sides: 3ft, 7ft and 2ft.
- 12) A triangle with the sides: 5mm, 2mm and 6mm.
- 13) A triangle with the sides: 9cm, 8cm and 7cm.
- 14) A triangle with the sides: 5mm, 7mm and 4mm.
- 15) A triangle with the sides: 7cm, 8cm and 6cm.
- 16) A triangle with the sides: 10ft, 2ft and 1ft.
- 17) A triangle with the sides: 7in, 7in and 8in.
- 18) A triangle with the sides: 8mm, 2mm and 9mm.
- 19) A triangle with the sides: 9ft, 9ft and 3ft.
- 20) A triangle with the sides: 6mm, 8mm and 9mm.

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- 2) A triangle with the angles: 34° , 7° and 109° .
- 3) A triangle with the angles: 122° , 9° and 44° .
- 4) A triangle with the angles: 82° , 75° and 23° .
- 5) A triangle with the angles: 46° , 4° and 117° .
- 6) A triangle with the angles: 4° , 55° and 95° .
- 7) A triangle with the angles: 134° , 39° and 7° .
- 8) A triangle with the angles: 38° , 1° and 141° .
- 9) A triangle with the angles: 62° , 50° and 43° .
- 10) A triangle with the angles: 33° , 17° and 130° .
- 11) A triangle with the sides: 3ft, 7ft and 2ft.
- 12) A triangle with the sides: 5mm, 2mm and 6mm.
- 13) A triangle with the sides: 9cm, 8cm and 7cm.
- 14) A triangle with the sides: 5mm, 7mm and 4mm.
- 15) A triangle with the sides: 7cm, 8cm and 6cm.
- 16) A triangle with the sides: 10ft, 2ft and 1ft.
- 17) A triangle with the sides: 7in, 7in and 8in.
- 18) A triangle with the sides: 8mm, 2mm and 9mm.
- 19) A triangle with the sides: 9ft, 9ft and 3ft.
- 20) A triangle with the sides: 6mm, 8mm and 9mm.

Answers

1. **i**
2. **i**
3. **i**
4. **p**
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15. **p**
16. **i**
17. **p**
18. **p**
19. **p**
20. **p**



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

Answers

- 1) A triangle with the angles: 121° , 12° and 47° .
- 2) A triangle with the angles: 1° , 5° and 174° .
- 3) A triangle with the angles: 67° , 2° and 102° .
- 4) A triangle with the angles: 15° , 38° and 127° .
- 5) A triangle with the angles: 45° , 14° and 101° .
- 6) A triangle with the angles: 16° , 112° and 52° .
- 7) A triangle with the angles: 25° , 141° and 14° .
- 8) A triangle with the angles: 5° , 144° and 31° .
- 9) A triangle with the angles: 133° , 9° and 34° .
- 10) A triangle with the angles: 76° , 50° and 26° .
- 11) A triangle with the sides: 3mm, 8mm and 2mm.
- 12) A triangle with the sides: 9mm, 5mm and 4mm.
- 13) A triangle with the sides: 8ft, 3ft and 9ft.
- 14) A triangle with the sides: 8ft, 2ft and 1ft.
- 15) A triangle with the sides: 10in, 2in and 1in.
- 16) A triangle with the sides: 3in, 3in and 1in.
- 17) A triangle with the sides: 6mm, 8mm and 5mm.
- 18) A triangle with the sides: 5cm, 3cm and 2cm.
- 19) A triangle with the sides: 10cm, 3cm and 2cm.
- 20) A triangle with the sides: 2mm, 10mm and 11mm.

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- 1) A triangle with the angles: 121° , 12° and 47° .
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- 5) A triangle with the angles: 45° , 14° and 101° .
- 6) A triangle with the angles: 16° , 112° and 52° .
- 7) A triangle with the angles: 25° , 141° and 14° .
- 8) A triangle with the angles: 5° , 144° and 31° .
- 9) A triangle with the angles: 133° , 9° and 34° .
- 10) A triangle with the angles: 76° , 50° and 26° .
- 11) A triangle with the sides: 3mm, 8mm and 2mm.
- 12) A triangle with the sides: 9mm, 5mm and 4mm.
- 13) A triangle with the sides: 8ft, 3ft and 9ft.
- 14) A triangle with the sides: 8ft, 2ft and 1ft.
- 15) A triangle with the sides: 10in, 2in and 1in.
- 16) A triangle with the sides: 3in, 3in and 1in.
- 17) A triangle with the sides: 6mm, 8mm and 5mm.
- 18) A triangle with the sides: 5cm, 3cm and 2cm.
- 19) A triangle with the sides: 10cm, 3cm and 2cm.
- 20) A triangle with the sides: 2mm, 10mm and 11mm.

Answers

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



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

- 1) A triangle with the angles: 22° , 8° and 130° .
- 2) A triangle with the angles: 14° , 57° and 103° .
- 3) A triangle with the angles: 31° , 131° and 18° .
- 4) A triangle with the angles: 29° , 83° and 53° .
- 5) A triangle with the angles: 100° , 14° and 66° .
- 6) A triangle with the angles: 53° , 51° and 76° .
- 7) A triangle with the angles: 12° , 73° and 95° .
- 8) A triangle with the angles: 70° , 34° and 76° .
- 9) A triangle with the angles: 4° , 170° and 6° .
- 10) A triangle with the angles: 46° , 115° and 19° .
- 11) A triangle with the sides: 6cm, 2cm and 1cm.
- 12) A triangle with the sides: 9cm, 9cm and 9cm.
- 13) A triangle with the sides: 7cm, 4cm and 8cm.
- 14) A triangle with the sides: 8cm, 6cm and 9cm.
- 15) A triangle with the sides: 9mm, 9mm and 9mm.
- 16) A triangle with the sides: 7ft, 5ft and 4ft.
- 17) A triangle with the sides: 4in, 3in and 5in.
- 18) A triangle with the sides: 5ft, 4ft and 6ft.
- 19) A triangle with the sides: 9ft, 7ft and 10ft.
- 20) A triangle with the sides: 5cm, 6cm and 4cm.

Answers

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- 10) A triangle with the angles: 46° , 115° and 19° .
- 11) A triangle with the sides: 6cm, 2cm and 1cm.
- 12) A triangle with the sides: 9cm, 9cm and 9cm.
- 13) A triangle with the sides: 7cm, 4cm and 8cm.
- 14) A triangle with the sides: 8cm, 6cm and 9cm.
- 15) A triangle with the sides: 9mm, 9mm and 9mm.
- 16) A triangle with the sides: 7ft, 5ft and 4ft.
- 17) A triangle with the sides: 4in, 3in and 5in.
- 18) A triangle with the sides: 5ft, 4ft and 6ft.
- 19) A triangle with the sides: 9ft, 7ft and 10ft.
- 20) A triangle with the sides: 5cm, 6cm and 4cm.

Answers

1. **i**
2. **i**
3. **p**
4. **i**
5. **p**
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15. **p**
16. **p**
17. **p**
18. **p**
19. **p**
20. **p**



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

Answers

- 1) A triangle with the angles: 32° , 87° and 61° .
- 2) A triangle with the angles: 61° , 44° and 58° .
- 3) A triangle with the angles: 46° , 92° and 35° .
- 4) A triangle with the angles: 42° , 25° and 113° .
- 5) A triangle with the angles: 8° , 3° and 169° .
- 6) A triangle with the angles: 146° , 29° and 5° .
- 7) A triangle with the angles: 42° , 20° and 105° .
- 8) A triangle with the angles: 14° , 143° and 23° .
- 9) A triangle with the angles: 83° , 34° and 54° .
- 10) A triangle with the angles: 35° , 6° and 127° .
- 11) A triangle with the sides: 4ft, 2ft and 5ft.
- 12) A triangle with the sides: 1ft, 1ft and 2ft.
- 13) A triangle with the sides: 2ft, 10ft and 1ft.
- 14) A triangle with the sides: 3in, 3in and 3in.
- 15) A triangle with the sides: 4mm, 6mm and 3mm.
- 16) A triangle with the sides: 7mm, 4mm and 3mm.
- 17) A triangle with the sides: 4in, 6in and 3in.
- 18) A triangle with the sides: 9cm, 2cm and 1cm.
- 19) A triangle with the sides: 4ft, 10ft and 3ft.
- 20) A triangle with the sides: 6cm, 7cm and 8cm.

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- 8) A triangle with the angles: 14° , 143° and 23° .
- 9) A triangle with the angles: 83° , 34° and 54° .
- 10) A triangle with the angles: 35° , 6° and 127° .
- 11) A triangle with the sides: 4ft, 2ft and 5ft.
- 12) A triangle with the sides: 1ft, 1ft and 2ft.
- 13) A triangle with the sides: 2ft, 10ft and 1ft.
- 14) A triangle with the sides: 3in, 3in and 3in.
- 15) A triangle with the sides: 4mm, 6mm and 3mm.
- 16) A triangle with the sides: 7mm, 4mm and 3mm.
- 17) A triangle with the sides: 4in, 6in and 3in.
- 18) A triangle with the sides: 9cm, 2cm and 1cm.
- 19) A triangle with the sides: 4ft, 10ft and 3ft.
- 20) A triangle with the sides: 6cm, 7cm and 8cm.

Answers

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



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

Answers

- 1) A triangle with the angles: 51° , 9° and 120° .
- 2) A triangle with the angles: 126° , 12° and 35° .
- 3) A triangle with the angles: 1° , 2° and 157° .
- 4) A triangle with the angles: 18° , 9° and 148° .
- 5) A triangle with the angles: 91° , 65° and 10° .
- 6) A triangle with the angles: 89° , 67° and 11° .
- 7) A triangle with the angles: 53° , 94° and 12° .
- 8) A triangle with the angles: 84° , 6° and 90° .
- 9) A triangle with the angles: 59° , 94° and 1° .
- 10) A triangle with the angles: 57° , 7° and 116° .
- 11) A triangle with the sides: 7in, 7in and 7in.
- 12) A triangle with the sides: 10mm, 10mm and 10mm.
- 13) A triangle with the sides: 6mm, 2mm and 1mm.
- 14) A triangle with the sides: 2ft, 10ft and 1ft.
- 15) A triangle with the sides: 6cm, 4cm and 3cm.
- 16) A triangle with the sides: 9mm, 3mm and 2mm.
- 17) A triangle with the sides: 5in, 5in and 5in.
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- 1) A triangle with the angles: 51° , 9° and 120° .
- 2) A triangle with the angles: 126° , 12° and 35° .
- 3) A triangle with the angles: 1° , 2° and 157° .
- 4) A triangle with the angles: 18° , 9° and 148° .
- 5) A triangle with the angles: 91° , 65° and 10° .
- 6) A triangle with the angles: 89° , 67° and 11° .
- 7) A triangle with the angles: 53° , 94° and 12° .
- 8) A triangle with the angles: 84° , 6° and 90° .
- 9) A triangle with the angles: 59° , 94° and 1° .
- 10) A triangle with the angles: 57° , 7° and 116° .
- 11) A triangle with the sides: 7in, 7in and 7in.
- 12) A triangle with the sides: 10mm, 10mm and 10mm.
- 13) A triangle with the sides: 6mm, 2mm and 1mm.
- 14) A triangle with the sides: 2ft, 10ft and 1ft.
- 15) A triangle with the sides: 6cm, 4cm and 3cm.
- 16) A triangle with the sides: 9mm, 3mm and 2mm.
- 17) A triangle with the sides: 5in, 5in and 5in.
- 18) A triangle with the sides: 9in, 9in and 9in.
- 19) A triangle with the sides: 4in, 2in and 5in.
- 20) A triangle with the sides: 3cm, 5cm and 6cm.

Answers

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



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

Answers

- 1) A triangle with the angles: 66° , 20° and 79° .
- 2) A triangle with the angles: 3° , 169° and 8° .
- 3) A triangle with the angles: 92° , 46° and 25° .
- 4) A triangle with the angles: 28° , 72° and 80° .
- 5) A triangle with the angles: 41° , 80° and 32° .
- 6) A triangle with the angles: 1° , 1° and 178° .
- 7) A triangle with the angles: 22° , 121° and 22° .
- 8) A triangle with the angles: 21° , 35° and 103° .
- 9) A triangle with the angles: 67° , 43° and 40° .
- 10) A triangle with the angles: 41° , 14° and 125° .
- 11) A triangle with the sides: 4in, 4in and 6in.
- 12) A triangle with the sides: 4mm, 4mm and 4mm.
- 13) A triangle with the sides: 4ft, 8ft and 3ft.
- 14) A triangle with the sides: 7mm, 6mm and 8mm.
- 15) A triangle with the sides: 3cm, 9cm and 2cm.
- 16) A triangle with the sides: 10in, 9in and 11in.
- 17) A triangle with the sides: 6cm, 8cm and 5cm.
- 18) A triangle with the sides: 2ft, 2ft and 4ft.
- 19) A triangle with the sides: 7mm, 10mm and 6mm.
- 20) A triangle with the sides: 4ft, 4ft and 3ft.

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- 2) A triangle with the angles: 3° , 169° and 8° .
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- 17) A triangle with the sides: 6cm, 8cm and 5cm.
- 18) A triangle with the sides: 2ft, 2ft and 4ft.
- 19) A triangle with the sides: 7mm, 10mm and 6mm.
- 20) A triangle with the sides: 4ft, 4ft and 3ft.

Answers

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



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

Answers

- 1) A triangle with the angles: 38° , 48° and 94° .
- 2) A triangle with the angles: 24° , 42° and 114° .
- 3) A triangle with the angles: 151° , 16° and 7° .
- 4) A triangle with the angles: 49° , 83° and 48° .
- 5) A triangle with the angles: 93° , 57° and 5° .
- 6) A triangle with the angles: 30° , 70° and 59° .
- 7) A triangle with the angles: 47° , 22° and 98° .
- 8) A triangle with the angles: 40° , 65° and 51° .
- 9) A triangle with the angles: 50° , 84° and 46° .
- 10) A triangle with the angles: 48° , 33° and 99° .
- 11) A triangle with the sides: 3cm, 3cm and 3cm.
- 12) A triangle with the sides: 10in, 10in and 10in.
- 13) A triangle with the sides: 3ft, 3ft and 3ft.
- 14) A triangle with the sides: 5mm, 5mm and 5mm.
- 15) A triangle with the sides: 10ft, 10ft and 9ft.
- 16) A triangle with the sides: 6cm, 6cm and 6cm.
- 17) A triangle with the sides: 9ft, 4ft and 10ft.
- 18) A triangle with the sides: 10cm, 10cm and 5cm.
- 19) A triangle with the sides: 2in, 6in and 1in.
- 20) A triangle with the sides: 5in, 5in and 5in.

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

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- 19) A triangle with the sides: 2in, 6in and 1in.
- 20) A triangle with the sides: 5in, 5in and 5in.

Answers

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