

Find the mode of each dataset.

1. 5, 5, 7, 12, 10, 12, 12

2. 2, 7, 12, 9, 4, 3, 8

3. 11, 3, 7, 11, 11, 10, 7

4. 2, 3, 9, 10, 6, 2, 9

5. 10, 11, 9, 9, 8

6. 10, 5, 3, 3, 9, 6, 6, 9

7. 9, 6, 5, 6, 11, 8, 2

8. 6, 11, 3, 7, 7, 11

9. 4, 11, 12, 8, 3, 8, 6

10. 12, 10, 11, 6, 5

11. 7, 10, 10, 10, 9

12. 5, 12, 4, 7, 5, 11, 12, 12, 8

mode(s)
12
2, 3, 4, 7, 8, 9 and 12
11
2 and 9
9
3, 6 and 9
6
7 and 11
8
5, 6, 10, 11 and 12
10
12

Solution Steps

¹⁾ 5, 5, 7, 12, 10, 12, 12

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

5, 5, 7, 10, 12, 12 and 12

The number that appears most often is 12, so 12 is the mode of the set

²⁾ 2, 7, 12, 9, 4, 3, 8

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

2, 3, 4, 7, 8, 9 and 12

The number that appears most often are 2, 3, 4, 7, 8, 9 and 12. Since there is a tie, we say that the list has 7 modes: 2, 3, 4, 7, 8, 9 and 12

³⁾ 11, 3, 7, 11, 11, 10, 7

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

3, 7, 7, 10, 11, 11 and 11

The number that appears most often is 11, so 11 is the mode of the set

⁴⁾ 2, 3, 9, 10, 6, 2, 9

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

2, 2, 3, 6, 9, 9 and 10

The number that appears most often are 2 and 9. Since there is a tie, we say that the list has 2 modes: 2 and 9

⁵⁾ 10, 11, 9, 9, 8

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

8, 9, 9, 10 and 11

The number that appears most often is 9, so 9 is the mode of the set

⁶⁾ 10, 5, 3, 3, 9, 6, 6, 9

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

3, 3, 5, 6, 6, 9, 9 and 10

The number that appears most often are 3, 6 and 9. Since there is a tie, we say that the list has 3 modes: 3, 6 and 9

⁷⁾ 9, 6, 5, 6, 11, 8, 2

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

2, 5, 6, 6, 8, 9 and 11

The number that appears most often is 6, so 6 is the mode of the set

⁸⁾ 6, 11, 3, 7, 7, 11

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

3, 6, 7, 7, 11 and 11

The number that appears most often are 7 and 11. Since there is a tie, we say that the list has 2 modes: 7 and 11

⁹⁾ 4, 11, 12, 8, 3, 8, 6

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

3, 4, 6, 8, 8, 11 and 12

The number that appears most often is 8, so 8 is the mode of the set

¹⁰⁾ 12, 10, 11, 6, 5

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

5, 6, 10, 11 and 12

The number that appears most often are 5, 6, 10, 11 and 12. Since there is a tie, we say that the list has 5 modes: 5, 6, 10, 11 and 12

¹¹⁾ 7, 10, 10, 10, 9

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

7, 9, 10, 10 and 10

The number that appears most often is 10, so 10 is the mode of the set

¹²⁾ 5, 12, 4, 7, 5, 11, 12, 12, 8

Right now the numbers are out of order, so it is difficult to tell which number appears most often. So first put the numbers in order:

4, 5, 5, 7, 8, 11, 12, 12 and 12

The number that appears most often is 12, so 12 is the mode of the set