

Find the range of each dataset.

1. 8, 10, 7, 10, 5, 7

range

5

2. 10, 9, 8, 9, 8

2

3. 8, 8, 11, 5, 11, 4

7

4. 4, 2, 11, 8, 5, 2, 5, 8, 11

9

5. 8, 7, 3, 2, 12, 2, 8, 11, 10

10

6. 2, 12, 4, 6, 5, 11, 12, 3

10

7. 9, 6, 4, 11, 11, 5

7

8. 9, 7, 7, 4, 6, 6

5

9. 3, 12, 8, 4, 12, 12, 2, 5, 6

10

10. 5, 6, 2, 9, 5, 2, 12, 12, 8

10

11. 11, 2, 9, 5, 6

9

12. 11, 2, 5, 5, 8, 11, 8

9

Solution Steps

$$^1) 8, 10, 7, 10, 5, 7$$

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

5, 7, 7, 8, 10 and 10

Now it is easier to see that the smallest number in the list is 5 and the largest number is 10

To find the range, subtract 5 from 10:

$$10 - 5 = 5$$

The range of the set is 5

$$^2) 10, 9, 8, 9, 8$$

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

8, 8, 9, 9 and 10

Now it is easier to see that the smallest number in the list is 8 and the largest number is 10

To find the range, subtract 8 from 10:

$$10 - 8 = 2$$

The range of the set is 2

$$^3) 8, 8, 11, 5, 11, 4$$

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

4, 5, 8, 8, 11 and 11

Now it is easier to see that the smallest number in the list is 4 and the largest number is 11

To find the range, subtract 4 from 11:

$$11 - 4 = 7$$

The range of the set is 7

⁴⁾ 4, 2, 11, 8, 5, 2, 5, 8, 11

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

2, 2, 4, 5, 5, 8, 8, 11 and 11

Now it is easier to see that the smallest number in the list is 2 and the largest number is 11

To find the range, subtract 2 from 11:

$$11 - 2 = 9$$

The range of the set is 9

⁵⁾ 8, 7, 3, 2, 12, 2, 8, 11, 10

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

2, 2, 3, 7, 8, 8, 10, 11 and 12

Now it is easier to see that the smallest number in the list is 2 and the largest number is 12

To find the range, subtract 2 from 12:

$$12 - 2 = 10$$

The range of the set is 10

⁶⁾ 2, 12, 4, 6, 5, 11, 12, 3

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

2, 3, 4, 5, 6, 11, 12 and 12

Now it is easier to see that the smallest number in the list is 2 and the largest number is 12

To find the range, subtract 2 from 12:

$$12 - 2 = 10$$

The range of the set is 10

⁷⁾ 9, 6, 4, 11, 11, 5

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

4, 5, 6, 9, 11 and 11

Now it is easier to see that the smallest number in the list is 4 and the largest number is 11

To find the range, subtract 4 from 11:

$$11 - 4 = 7$$

The range of the set is 7

⁸⁾ 9, 7, 7, 4, 6, 6

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

4, 6, 6, 7, 7 and 9

Now it is easier to see that the smallest number in the list is 4 and the largest number is 9

To find the range, subtract 4 from 9:

$$9 - 4 = 5$$

The range of the set is 5

⁹⁾ 3, 12, 8, 4, 12, 12, 2, 5, 6

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

2, 3, 4, 5, 6, 8, 12, 12 and 12

Now it is easier to see that the smallest number in the list is 2 and the largest number is 12

To find the range, subtract 2 from 12:

$$12 - 2 = 10$$

The range of the set is 10

¹⁰⁾ 5, 6, 2, 9, 5, 2, 12, 12, 8

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

2, 2, 5, 5, 6, 8, 9, 12 and 12

Now it is easier to see that the smallest number in the list is 2 and the largest number is 12

To find the range, subtract 2 from 12:

$$12 - 2 = 10$$

The range of the set is 10

¹¹⁾ 11, 2, 9, 5, 6

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

2, 5, 6, 9 and 11

Now it is easier to see that the smallest number in the list is 2 and the largest number is 11

To find the range, subtract 2 from 11:

$$11 - 2 = 9$$

The range of the set is 9

¹²⁾ 11, 2, 5, 5, 8, 11, 8

Right now the numbers are out of order, so it is difficult to tell which number is the largest or the smallest. So first put the numbers in order:

2, 5, 5, 8, 8, 11 and 11

Now it is easier to see that the smallest number in the list is 2 and the largest number is 11

To find the range, subtract 2 from 11:

$$11 - 2 = 9$$

The range of the set is 9