

# MEAN, MEDIAN, MODE, & RANGE CHALLENGE

This challenge was adapted from an [activity shared by Don Steward](#).

averages and range (positive integers)

1) 3 numbers: mean = 3 mode = 2  <input type="text"/> <input type="text"/> <input type="text"/>	2) 3 numbers: mean = 7 mode = 10  <input type="text"/> <input type="text"/> <input type="text"/>	3) 3 numbers: mean = 8 median = 10 range = 8  <input type="text"/> <input type="text"/> <input type="text"/>	4) 3 numbers: mean = 6 median = 7 range = 11  <input type="text"/> <input type="text"/> <input type="text"/>	5) 3 numbers: mode = 7 median = 7 mean = 6  <input type="text"/> <input type="text"/> <input type="text"/>	6) 3 numbers: mean = 13 range = 8  <input type="text"/> <input type="text"/> <input type="text"/> find three sets
7) 4 numbers: mean = 4 mode = 1 median = 2  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	8) 4 numbers: mean = 9 mode = 6 median = 7  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	9) 4 numbers: mean = 6 median = $6\frac{1}{2}$ range = 11  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	10) 4 numbers: mean = $7\frac{1}{2}$ mode = 6 median = 7  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	11) 4 numbers: mean = 10 range = 12 mode = 13  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	12) 4 numbers: mean = 8 range = 8 median = 7  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> find three sets
13) 4 numbers: mean = 4 range = 6 median = 3  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> find two sets	14) 5 numbers: range = 5 mean = 6 median = 7 mode = 8  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	15) 5 numbers: range = 9 mean = 4 mode = 3  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> find two sets	16) 5 numbers: range = 6 mean = 4 mode = 2  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> find two sets	17) 5 numbers: range = 5 mean = 4 median = 3  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> find three sets	18) 5 numbers: range = 10 mean = 7 mode = 7  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> find three sets
19) 5 numbers: range = 5 mean = 5 mode = 5 median = 5  find two sets	20) 5 numbers: range = 10 mean = 10 mode = 10 median = 10  find three sets	21) 5 numbers: range = 10 mean = 4 mode = 1 median = 2  find three sets	22) 6 numbers: range = 10 mean = 4 mode = 1 median = 2  find three sets	23) range = 10 mean = 4 median = 2 mode = 1 a) 4 numbers b) 5 numbers c) 6 numbers	24) 5 numbers: 2, 5, n, 2n, 5n mean = $2 \times \text{median} - 1$  find n

## CHALLENGE 1

Find a set of three whole numbers with mean = 3 and mode = 2.

## CHALLENGE 2

Find a set of three whole numbers with mean = 7 and mode = 10.

---

## CHALLENGE 3

Find a set of three whole numbers with median = 10, mean = 8, and range = 8.

## CHALLENGE 4

Find a set of four whole numbers with mean = 7.5, mode = 6, and median = 7.

---

## CHALLENGE 5

Find a set of four whole numbers with mean = 3, median = 3.5, and mode = 8.

## CHALLENGE 6

Find a set of four whole numbers with mean = 8, median = 7, range = 8.

## CHALLENGE 7

Find a set of four whole numbers with mean = 6, median = 6.5, and range = 11.

## CHALLENGE 8

Find a set of four whole numbers with mean of first three = 9, mean = 10, and range = 12.

---

## CHALLENGE 9

Find two sets of five whole numbers with mean = 4, mode = 3, and range = 9.

## CHALLENGE 10

Find two sets of five whole numbers with mean = 4, mode = 2, and range = 6.

---

## CHALLENGE 11

Find three sets of five whole numbers with mean = 7, mode = 7, and range = 10.

## CHALLENGE 12

Find sets of four, five, and six numbers with mean = 4, mode = 1, median = 2, and range = 10.

## **MEAN, MEDIAN, MODE, & RANGE CHALLENGE**

Challenge 1	Challenge 2
Challenge 3	Challenge 4
Challenge 5	Challenge 6
Challenge 7	Challenge 8
Challenge 9	Challenge 10
Challenge 11	Challenge 12

## **MEAN, MEDIAN, MODE, & RANGE CHALLENGE**

Challenge 1	Challenge 2
Challenge 3	Challenge 4
Challenge 5	Challenge 6
Challenge 7	Challenge 8
Challenge 9	Challenge 10
Challenge 11	Challenge 12