

# Year 8 Data Worksheet



1. Aaryan bought 10 items at a back-to-school sale. The items cost:

\$9 \$7 \$5 \$7 \$6 \$5 \$5 \$2 \$8  
\$2

What was the median price of the items?

2. What is the mode?

0 4 4 4 7 7 4 7 7 4

3. For a class science project, students worked in groups to make potato-powered batteries. Each of the 6 groups used a voltmeter to measure the voltage produced by their potatoes:

1.6 volts 1.2 volts 1.4 volts 2.9 volts 1.4 volts  
1.6 volts

What was the median voltage?

4. What is the mean?

5 8 1 8 5 3

5. What is the mode?

4,665 4,662 4,665 4,663 4,662 4,659  
4,663 4,663

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6. What is the mean? If the answer is a decimal, round it to the nearest tenth.

5,438 5,448 5,443 5,440 5,435 5,438  
5,446 5,432

7. Nicholas kept a driving log to see how many miles he drove each day.

| Miles driven |                 |
|--------------|-----------------|
| Day          | Number of miles |
| Wednesday    | 48              |
| Thursday     | 50              |
| Friday       | 48              |
| Saturday     | 49              |
| Sunday       | 47              |
| Monday       | 50              |

What is the range of the numbers?

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8. The gym teacher wrote down how many tennis balls his students hit in half an hour.

| Hitting tennis balls |                        |
|----------------------|------------------------|
| Name                 | Number of tennis balls |
| Alan                 | 118                    |
| Barter               | 135                    |
| Roberto              | 133                    |
| Tim                  | 126                    |
| ruby                 | 116                    |
| Lara                 | 128                    |
| Nicky                | 119                    |
| Anne                 | 141                    |

What is the mean of the numbers?

9. Look at this set of 8 numbers:

47 53 55 22 69 28 31 69

How would the median change if the number 62 were added to the set?

- A. increase
- B. decrease
- C. no change

10. Look at this set of 7 numbers:

37 14 81 21 87 87 44

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How would the mean change if the number 93 replaced the number 37 in the set?

- A. increase
- B. decrease
- C. no change

11. Robert lives in Montana. On a bus trip across the state he looks out the window and sees where other vehicles are from. On the trip he sees 175 vehicles with Montana plates and 40 with non-Montana plates.

On the trip back the next day, what is the probability that the first car he sees is from Montana?

12. Rubina shows her friend Katrina a deck of cards. Assuming the cards in the deck are randomly distributed, what is the probability that Rubina draws an ace and does not replace it, and then draws another ace?