

## Gen Math - Data Worksheet



1. The eye colors of a sample of children in a school were recorded. When analyzing this data, which of the following statistics can be used?
  - (A) mean,
  - (B) median,
  - (C) mode
  - (D) range.
  
2. Jamie wants to know how many songs were downloaded legally from the internet in the last 12 months by people aged 18–25 years. He has decided to conduct a statistical inquiry. After he collects the data, which of the following shows the best order for the steps he should take with the data to complete his inquiry?
  - (A) Display, organize, conclude, analyse
  - (B) Organise, display, conclude, analyze
  - (C) Display, organize, analyze, conclude
  - (D) Organize, display, analyze, conclude
  
3. Find median of 21, 3, 4, 6, 56, 24, 9
  - (A) 6
  - (B) 7.5
  - (C) 9
  - (D) 17.5
  - (E) 21

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3. What is the median of the following set of scores?

Score	Frequency
12	13
14	6
16	2
18	12
Total	33

- (A) 12  
(B) 13  
(C) 14  
(D) 15
5. The mean of a set of ten scores is 14. Another two scores are included and the new mean is 16. What is the mean of the two additional scores?  
(A) 4  
(B) 16  
(C) 18  
(D) 26
6. Christina has completed three Mathematics tests. Her mean score is 72%. What mark (out of 100) does she have to get in her next test to increase her mean mark to 73%?
7. The annual budget of a certain college is to be shown on a circle graph. If the size of each sector of the graph is to be proportional to the amount of the budget it represents, how many degrees of the circle should be used to represent an item that is 25 percent of the budget?  
(A) 25  
(B) 60  
(C) 90  
(D) 100  
(E) 250
8. Packets of rice are each labelled as having a mass of 1 kg. The mass of these packets is normally distributed with a mean of 1.02 kg and a standard deviation of 0.01kg. Complete the following table:

Mass in kg	1.00	1.01	1.02	1.03	1.04
z-score	?	?	0	1	?

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- (a) What percentage of packets will have a mass less than 1.02 kg?
- (b) What percentage of packets will have a mass between 1.00 and 1.04 kg?
- (c) What percentage of packets will have a mass between 1.00 and 1.02 kg?
- (d) What percentage of packets will have a mass less than the labelled mass?

9. The time for a car to travel a certain distance varies inversely with its speed. Draw a graph to show this relationship.

10. In a certain pond, 100 fish were caught, tagged, and returned to the pond. A few days later, 100 fish were caught again, of which 4 were found to have been tagged. If the percent of tagged fish in the second catch approximates the percent of tagged fish in the pond, what is the approximate number of fish in the pond?

- a. 400
- b. 625
- c. 1,250
- d. 2,500
- e. 10,000