

# Statistics – SET 1

1. What is the mode of the data set: 3, 7, 7, 2, 6?
2. What is the median of 11, 15, 9, 17, 20?
3. Calculate the mean of these numbers: 4, 8, 12, 10.
4. What is the range of 5, 2, 8, 1, 7?
5. Write one example of categorical data.
6. What type of graph is best for showing how parts make up a whole?
7. Which measure of central tendency is most affected by outliers?
8. A die is thrown once. What is the probability of getting a 5?
9. From a set of 23 students, how many have scored more than the median if scores are: 8, 9, 10, 11, 12, 13, ..., 30?
10. What does 'frequency' mean in statistics?
11. What is the modal class in this frequency table: Class 1: 4, Class 2: 7, Class 3: 2, Class 4: 5?
12. Give one example of continuous data.
13. What is the mean of: 5, 10, 15?
14. Draw a simple bar chart to represent the following data: A-4, B-6, C-2, D-3.
15. What is a population in a statistical investigation?
16. Explain the meaning of 'biased sample'.
17. What is the range of 13, 15, 25, 5, 17?
18. Find the mode from this set: 1, 1, 2, 2, 2, 3.
19. What type of average is found by adding all the numbers and dividing by how many there are?
20. What is the probability of choosing a vowel from the word "teacher"?
21. What is a tally chart used for?
22. How many degrees does one section of a pie chart for 8 out of 40 people represent?
23. What is an outlier?
24. How many values are in the set: 3, 6, 9, 2, 8, 12?

25. What is the median of: 2, 5, 10?
26. What does a histogram show?
27. For exam scores 6, 7, 5, 8, 7, 9, what is the modal score?
28. What is the range of 6, 13, 8, 13, 7?
29. What term describes the number of times a result occurs?
30. How do you find the probability of an event?
31. What is the mean of these numbers: 3, 7, 11, 15?
32. Give an example of discrete data.
33. What is the value of the range for 4, 14, 19?
34. What does a scatter graph show?
35. What is the probability of rolling a number greater than 4 on a fair 6-sided die?
36. What does the median represent in a data set?
37. How is percentage calculated from a frequency table of 20 students with 6 getting an A?
38. What does the term 'quartile' mean?
39. Find the mode of 3, 3, 6, 7, 8, 9, 10.
40. What is the disadvantage of using only the mean?
41. What is a sample?
42. What is the probability of selecting a red ball from a bag of 3 reds and 2 blues?
43. What does a cumulative frequency graph display?
44. What is a stem-and-leaf diagram?
45. Give an example of qualitative data in a survey.
46. What is the interquartile range?
47. What graph is best for showing change over time?
48. What is the mode in the set: 10, 13, 10, 11?
49. How do you find the median in a list with even number of items?
50. What is the probability of picking a Queen from a deck of cards?
51. If a coin is flipped twice, how many outcomes are there?
52. What is a grouped frequency table?

53. What term is used for numbers spaced at regular intervals in ordered data?
54. What does the frequency polygon show?
55. What does 'relative frequency' mean?
56. How do you calculate the mean from a frequency table?
57. What is the advantage of random sampling?
58. Define class interval.
59. What is a line graph?
60. What does the lower quartile represent?
61. What is the probability of drawing an ace from a pack of 52 cards?
62. Name one type of biased sample.
63. What does a box plot show?
64. What is the range for the data: 7, 10, 12, 14, 16?
65. Give one measure of spread.
66. What does 'median class' refer to in grouped data?
67. How do you calculate the mean from data: 4, 17, 6, 5, 3?
68. What is the probability of picking a blue ball from a bag of 5 blue and 8 red balls?
69. What is an advantage of using the mode?
70. How can outliers affect data analysis?
71. What is the value of the highest quartile called?
72. Name a chart for displaying categorical data.
73. What is a frequency?
74. If 70 students read 10 books in total, what is their mean?
75. Give one example of secondary data.
76. What is the range of 22, 7, 15, 9?
77. What do error bars in a chart show?
78. What is the mode of: 17, 15, 14, 14, 12?
79. What does continuous data mean?
80. What is the probability of picking an odd number from 1, 2, 3, 4, 5, 6?

81. What is the median of: 10, 12, 15, 32, 6?
82. What is a class boundary?
83. What is a frequency table?
84. Give the definition of 'variance.'
85. What is the mean of: 14, 18, 22?
86. In what circumstances is mode preferred?
87. What does a pie chart represent?
88. What is a survey?
89. What does the interquartile range measure?
90. What does a pictogram show?
91. What is the median of 9, 11, 7, 4, 10?
92. What is the probability of selecting a vowel from "unique"?
93. What is the maximum in this set: 43, 12, 29, 38?
94. What does a stem of '3' represent in a stem-and-leaf diagram with values of 31, 34, 35?
95. If data is skewed left, what is true about its mean and median?
96. What is a random variable?
97. What does correlation mean?
98. What is the mean of 7, 14, 21?
99. What probability does a true-false test give for 'true'?
100. What is the mode of: 7, 9, 10, 9, 12?

## **Statistics – SET 2**

1. What is the range of 6, 17, 9, 12, 14?
2. Name the measure of spread calculated using quartiles.
3. Find the mode of: 14, 13, 12, 14, 15, 16, 14, 17.
4. What is the mean of: 13, 18, 21, 11?
5. What is the median in 17, 19, 13, 15, 21?
6. What type of data can take any value within a range?

7. What is a histogram?
8. What graph is used for frequency of categories?
9. What is the minimum value in the set: 21, 14, 27, 27, 11?
10. How do you calculate range?
11. What does a frequency table contain?
12. What is the probability of rolling a 6 on a die?
13. What is meant by cumulative frequency?
14. What is the mean of 2, 4, 8, 6, 10?
15. What is the median of 5, 5, 7, 9, 11, 12?
16. What is the modal class in: 10 (2), 20 (6), 30 (4)?
17. What is the definition of grouped data?
18. Find the range for: 33, 24, 29, 19, 17.
19. In a survey, what is a respondent?
20. What does the term 'skewed' mean in statistics?
21. What is the mean of: 11, 14, 10?
22. Find the median in: 8, 17, 12, 31, 14.
23. How do you calculate mode?
24. What chart displays percentages out of 100?
25. What is a dot plot?
26. What is the range in: 12, 14, 10, 9, 8?
27. Define relative frequency.
28. What is the probability of picking a 2 from 2, 4, 6, 8?
29. What is an average?
30. What is the mid-point of a class interval 40–50?
31. What do box plots show?
32. What is a survey?
33. What is the median in: 40, 55, 65, 45, 60?
34. What is the mean of: 9, 10, 13?

35. Define secondary data.
36. What is the mode of: 12, 12, 13, 14?
37. What is the probability of picking a King from a deck of cards?
38. What does double bar chart compare?
39. What is the mean of: 18, 27, 35?
40. Find the range in: 11, 16, 14, 13, 12.
41. What does class interval mean?
42. What is a pictogram?
43. What is a population in statistics?
44. What is the median of: 5, 6, 8, 8, 10?
45. What does 'sample' refer to?
46. What is the range in: 24, 26, 28, 34?
47. What is bias in a survey?
48. Define qualitative data.
49. What does frequency refer to?
50. What does a cumulative frequency show?
51. What is the mean of: 25, 27, 32, 28?
52. What is the modal number in: 21, 21, 20, 23?
53. What is the range of: 120, 122, 119?
54. What is the median in: 9, 11, 8?
55. What is a time series graph?
56. How do you work out the mean from total and frequency?
57. What is the definition of continuous data?
58. What is the probability of rolling an even number on a die?
59. What is the mean of: 10, 20, 30?
60. Define outlier.
61. What is the modal class in the table 5–10 (2), 10–15 (6), 15–20 (5)?
62. What is the mean of: 3, 5, 8, 10?

63. How do you calculate probability?
64. What is the mode in: 8, 10, 10, 11, 12?
65. What is the range in: 32, 41, 23?
66. What does a stem-and-leaf diagram show?
67. What is the median of: 99, 100, 97, 95, 93?
68. What does total frequency mean?
69. What is the probability of picking a heart from a deck of cards?
70. What is the median in: 14, 13, 11, 9?
71. Define discrete data.
72. What does a scatter plot show?
73. How is percentage found from data?
74. Find the range: 80, 75, 73, 100?
75. What is mean in statistics?
76. What is a bias?
77. What is the median of: 100, 110, 120?
78. Define quartile.
79. What is the probability of picking a vowel from "Noise"?
80. What is the mean of: 32, 31, 30?
81. What is the mode of: 23, 45, 76, 45, 23, 23?
82. What is the mid-point of 20-40?
83. What is the range in: 7, 15, 14?
84. What is a measure of dispersion?
85. What is the mean of: 17, 23, 34, 26?
86. What is the median in: 17, 15, 24, 16, 19?
87. What is a frequency table?
88. What is the modal class in: 20–30 (3), 30–40 (7), 40–50 (2)?
89. How do you work out the probability of two independent events both happening?
90. What is the mean of: 10, 12, 14?

91. Name one advantage of a pie chart.
92. What is the median of: 5, 8, 9, 10, 11?
93. What is an upper quartile?
94. What is mode in statistics?
95. How do you work out percentage from a bar chart?
96. What is range a measure of?
97. What is a bar chart?
98. What is the mean of: 45, 33, 27?
99. What is the probability of flipping two heads in two coin tosses?
100. How do you calculate range?

## **Statistics – SET 3**

1. What is the median of 45, 50, 55, 60, 65?
2. Define mean in your own words.
3. What is frequency?
4. How do you find mode from data?
5. If the range is 13, min is 3, what is the max?
6. What is the mean of 23, 17, 13, 21?
7. What is the range: 5, 8, 11, 15?
8. What is probability that a spinner (4 colors) lands on blue?
9. What does a line graph show?
10. What is a class interval?
11. Name a measure of spread.
12. What is mean of 56, 48, 32?
13. Define outlier.
14. What is a modal class in 2–4 (8), 4–6 (10), 6–8 (5)?
15. Range of: 102, 56, 78, 59?
16. What is the median of: 5, 5, 8, 9?



17. What does variance measure?
18. Find the mean of: 14, 16, 12, 18.
19. What is probability of picking an ace from a pack of cards?
20. What is the mode in: 7, 8, 9, 7?
21. Range of: 0.3, 1.5, 0.9?
22. What does a survey aim to do?
23. What is continuous data?
24. If a die is rolled twice, how many outcomes?
25. Mode of: 2, 2, 4, 5, 6?
26. Range of: 19, 11, 17?
27. What is the mean of: 15, 12, 11, 14?
28. What does central tendency mean?
29. Probability of getting a tail tossing a coin?
30. Median: 21, 23, 25, 32?
31. Range of: 8, 19, 23?
32. What is a box plot?
33. Mode in: 35, 46, 46, 50, 55?
34. What is a hypothesis?
35. Find mean of: 25, 25, 25, 26?
36. Range of: 60, 55, 58?
37. What does a cumulative frequency diagram show?
38. Probability of a prime on a die?
39. Median: 12, 14, 19, 20, 21?
40. What is lowest quartile?
41. What is mean of: 32, 19, 11?
42. Range of: 1, 8, 10, 0?
43. What is a measure of central tendency?
44. Mode in: 21, 24, 21, 28?

45. Probability of picking a club in a deck?
46. Median: 12, 12, 13, 14, 15, 18?
47. Range of: 88, 75, 81?
48. Mean of: 25, 24?
49. What is frequency density?
50. Probability all heads in three coin tosses?
51. Range: 3.1, 5.8, 7.2?
52. Median: 30, 40, 50?
53. Mode in: 15, 18, 11, 18, 17?
54. Range of: 7, 14, 13, 20?
55. Mean of: 5, 7, 22?
56. Probability of 3 on a die?
57. What is a scatter graph useful for?
58. Median: 15, 20, 25, 30?
59. Mode of: 10, 12, 10, 13, 15?
60. Range: 22, 27, 32?
61. Mean: 151, 129, 200?
62. What is a percentile?
63. Mode in: 7, 7, 6, 2, 8?
64. Range: 8, 12, 14?
65. What is a sample?
66. Mean of: 16, 12, 18?
67. Probability of odd on a die?
68. Median: 6, 8, 10, 12?
69. Mode in: 11, 12, 13, 12?
70. Range: 6, 14, 9, 21?
71. Probability of red from 18 reds, 22 blues?
72. Mean of: 102, 105, 110?

73. What is typical value?
74. Median of: 1.2, 1.4, 1.6?
75. Mode in: 0.3, 0.5, 0.3?
76. Range of: 425, 493?
77. Probability of picking a heart from 52 cards?
78. Mean: 2, 5, 8, 11?
79. Median: 19, 32, 21, 27?
80. What is mode?
81. Range: 22, 36, 41, 32?
82. Median: 18, 21, 25?
83. Probability of smaller than 6 on a die?
84. Mean of: 4, 7, 10?
85. What is lower quartile?
86. Mode in: 11, 11, 14?
87. Range: 100, 120, 180?
88. Median: 37, 41, 44, 47?
89. Probability of rolling odd and even on two dice?
90. Mean of: 1, 5, 7?
91. Mode of: 24, 17, 8, 24?
92. Median: 6, 9, 8, 7?
93. What is modal group?
94. Range: 15, 19, 17, 25?
95. What is two-way table?
96. Mean: 25, 28, 31, 19?
97. Range: 0.414, 0.976?
98. Median: 3, 5, 9?
99. Probability of not Ace from a deck?
100. Find mean: 21, 22, 19, 29?

## Statistics – SET 4

1. Range: 13, 24, 18, 17, 22?
2. Median: 36, 42, 32, 39?
3. Mean: 6, 7, 8, 9?
4. Find modal class: 10–20 (13), 20–30 (17), 30–40 (9).
5. Probability a week has at least one Monday.
6. What does a bimodal distribution mean?
7. Mean: 13, 19, 24?
8. Range: 45, 67, 32, 89?
9. Mode: 2, 4, 4, 5, 8?
10. What is frequency table?
11. Median: 20.5, 24.2, 21.1?
12. Probability of rolling even on a die.
13. Range: 64, 75, 87, 93?
14. Mean: 0.8, 1.5, 1.2?
15. Median: 71, 60, 60, 65?
16. Mode: 41, 39, 41, 42?
17. Probability of red from bag of 6 reds and 3 blues?
18. What is quartile?
19. Range: 18, 25, 42?
20. Mean: 10, 12, 14, 18?
21. Median: 11, 9, 7, 12, 14?
22. Mode: 19, 15, 16?
23. Probability of getting 'A' on random letter in 'maths'.
24. What does stem represent in stemplot?
25. Range: 2, 4, 8, 15, 17?
26. Mean: 16, 21, 29?

27. Median: 7, 4, 8, 9, 10?
28. Mode: 44, 47, 47?
29. Probability 3 on a die.
30. What does cumulative frequency mean?
31. Range: 102, 110, 120?
32. Mean: 21, 17, 22, 18?
33. Median: 24, 34, 28, 31?
34. Mode: 23, 22, 21, 23?
35. Probability 2 heads in 3 tosses.
36. What does percentile mean?
37. Find modal group: 5–10 (3), 10–15 (7), 15–20 (2)?
38. Mean: 11, 13, 17?
39. Range: 201, 187, 196?
40. Median: 27, 32, 35?
41. Mode: 6, 12, 17?
42. Probability not king in pack?
43. What is median class?
44. Range: 38, 53, 61?
45. Mean: 2, 5, 8?
46. Modal class: 40–50 (8), 50–60 (11), 60–70 (7).
47. Probability red from 12 red/6 blue balls?
48. What does interquartile range mean?
49. Range: 25, 41, 77?
50. Mean: 0.22, 0.64, 0.18?
51. Median: 9, 11, 13, 17?
52. Mode: 14, 21, 14, 15?
53. Probability even from 3, 4, 5, 6.
54. What does frequency density mean?

55. Range: 0.2, 0.55, 0.88?
56. Mean: 12, 16, 20, 24, 28?
57. Median: 5, 8, 16, 19, 20?
58. Mode: 120, 112, 110?
59. Probability of drawing diamond from pack?
60. What is median?
61. Modal class: 11–20 (5), 21–30 (8), 31–40 (3).
62. Mean: 2, 6, 14?
63. Range: 88, 104, 120, 135?
64. Mode: 7, 4, 8, 8, 12?
65. Probability rolling odd on die?
66. What is quartile?
67. Mean: 1.2, 1.5, 2.1?
68. Median: 4.2, 3.9, 4.1?
69. Modal group: 2–6 (7), 6–10 (2), 10–13 (4).
70. Range: 14, 7, 2, 18?
71. Probability choose vowel in 'apple'.
72. Range: 15, 27, 41, 58?
73. Mean: 41, 39, 47?
74. Median: 81, 86, 92?
75. Mode: 21, 25, 25, 30?
76. Range: 11, 19, 27?
77. Mean: 205, 199, 212?
78. Median: 5, 9, 14, 20, 23?
79. Probability club from pack?
80. Mode: 14, 12, 14?
81. Mean: 3.7, 4.9, 5.3?
82. Median: 23, 29, 37?

83. Modal class: 20–40 (12), 40–60 (19), 60–80 (7).
84. Mean: 81, 108, 115?
85. Range: 12, 7, 18?
86. Probability rolling greater than 2 on die?
87. Median: 13, 15, 12, 27, 29?
88. Mode: 15, 16, 19?
89. Mean: 0.5, 0.05, 0.25?
90. Modal class: 1–5 (9), 5–10 (7), 10–15 (4).
91. Range: 0.54, 1.1, 0.95?
92. Mean: 11, 9, 13?
93. Probability not ace in pack?
94. Median: 40, 42, 41, 44, 46?
95. Mode: 6, 9, 6, 15, 20?
96. Range: 102, 98, 120?
97. Mean: 2.8, 4.7, 2.6?
98. Median: 111, 112, 113?
99. Probability getting yellow from bag 2 yellow, 5 green?
100. Mean: 11, 22, 33, 44?

## Statistics – SET 5

1. What is the mode of: 1, 3, 3, 6, 8?
2. Mean: 46, 38, 52, 44?
3. Probability of heads in coin toss.
4. Range: 11, 14, 12, 17?
5. What is median of: 55, 40, 61?
6. Modal class: 10–20 (6), 20–30 (7), 30–40 (6).
7. Mean: 14, 18, 21?
8. Probability rolling less than 3 on die?

9. Range: 101, 98, 111?
10. What is median: 18, 20, 21, 25?
11. Mean: 100, 105, 95?
12. Mode: 35, 36, 36, 38?
13. Modal class: 60–70 (10), 70–80 (15), 80–90 (12).
14. Median: 23, 27, 21, 19, 25?
15. Mean: 0.81, 1.06, 0.97?
16. Range: 45, 39, 50, 42?
17. Mode: 21, 23, 21, 42?
18. Probability of picking red from bag 5 red/10 blue.
19. Range: 77, 84, 93, 65?
20. Median: 1, 4, 6, 8, 10?
21. Mean: 18, 16, 20?
22. Probability Jack from pack?
23. Mode: 14, 17, 22, 17?
24. Modal group: 20–30 (7), 30–40 (13), 40–50 (6).
25. Mean: 42, 36, 56?
26. Probability not a prime picking 2, 3, 5, 4.
27. Range: 9, 17, 15?
28. Median: 34, 37, 41?
29. Mean: 0.3, 0.5, 0.7?
30. Mode: 66, 65, 66, 61?
31. Range: 1002, 1101?
32. Probability face card from deck?
33. Modal class: 11–20 (5), 21–30 (8), 31–40 (7).
34. Median: 7, 11, 13, 15?
35. Mean: 5, 15, 25, 35?
36. Probability rolling greater than 4 on die?



37. Mode: 9, 7, 1, 9, 9?
38. Modal class: 13–19 (6), 19–25 (10), 25–31 (9).
39. Mean: 16, 17, 16?
40. Range: 0.6, 1.7, 1?
41. Median: 44, 47, 50, 48?
42. Probability 2 heads in 3 coin tosses.
43. Mean: 60, 80, 100?
44. Mode: 13, 13, 19, 20?
45. Modal class: 2–4 (4), 4–8 (9), 8–12 (7).
46. Median: 9, 11, 15?
47. Range: 2, 8, 18?
48. Mean: 31, 29, 35, 25?
49. Probability ace pack of cards?
50. Mode: 1, 3, 2, 3?
51. Mean: 26, 34, 50?
52. Range: 15, 22, 13?
53. Modal class: 22–33 (13), 33–44 (8), 44–55 (9).
54. Median: 17, 19, 21?
55. Mean: 13, 17, 23, 19?
56. Probability not rolling a five on die?
57. Mode: 13, 12, 15, 14, 13?
58. Median: 101, 103, 109, 107, 105?
59. Range: 7, 15, 21?
60. Modal class: 10–17 (8), 17–24 (12), 24–31 (7).
61. Mean: 15, 12, 18?
62. Probability not drawing king from deck?
63. Median: 1.2, 1.5, 2.3?
64. Mean: 83, 92, 91?

65. Mode: 6, 8, 10, 8?
66. Range: 0.41, 0.59, 0.91?
67. Modal group: 10–16 (7), 16–24 (12), 24–30 (15).
68. Median: 2, 2.5, 3?
69. Mean: 0.22, 0.36, 0.18?
70. Mode: 17, 17, 20, 17?
71. Range: 28, 34, 27?
72. Probability heart from pack?
73. Modal class: 101–120 (16), 121–140 (17), 141–160 (13).
74. Median: 37, 47, 57?
75. Mean: 100, 150, 250?
76. Probability rolling even on die?
77. Mode: 12, 15, 15, 20?
78. Range: 220, 140, 180?
79. Modal class: 7–13 (10), 13–19 (8), 19–25 (7).
80. Median: 48, 43, 49, 47?
81. Mean: 7, 13, 23, 17?
82. Range: 10, 17, 10, 10?
83. Mode: 5, 5, 6, 6?
84. Median: 22, 27, 33?
85. Modal group: 1–10 (7), 10–20 (15), 20–30 (9).
86. Mean: 0.67, 0.71, 0.59?
87. Probability not red from bag 8 red, 12 blue.
88. Mode: 11, 15, 11, 21?
89. Mean: 59, 49, 39, 69?
90. Median: 7, 8, 10?
91. Range: 99, 103, 101, 102?
92. Probability heads or tails in one coin toss.

93. Mode: 15, 17, 15, 19?

94. Modal class: 28–36 (8), 36–44 (15), 44–52 (10).

95. Mean: 24, 31, 39?

96. Range: 200, 207, 221?

97. Modal group: 66–80 (10), 80–94 (7), 94–108 (12).

98. Median: 25, 28, 30, 35?

99. Probability not ace in pack?

100. Mean: 8, 16, 24?