# Double Bar Graph

1. A mathematics teacher wants to see, whether the new technique of teaching she applied after quarterly test was effective or not. She takes the scores of the 5 weak children in the quarterly test (out of 25) and in the half yearly test (out of 25):

| Students | Aseem | Kamya | Shivani | Ritika | Divyansh |
|---|---|---|---|---|---|
| Quarterly | 20 | 15 | 15 | 12 | 20 |
| Half Yearly | 18 | 21 | 9 | 16 | 15 |

Draw a double bar graph. Using the graph answer the following questions.

**a.** Is the new technique of teaching effective?

**b.** Who has benefitted more from the new technique?

2. Study the data giving the minimum and the maximum temperature of various cities

| Temperature of cities as on 25. 12. 2020 | | |
|---|---|---|
| City | Maximum | Minimum |
| Delhi | 39° C | 29° C |
| Mumbai | 31° C | 26° C |
| Bengaluru | 29° C | 22° C |
| Gujarat | 39° C | 30° C |
| Jalandhar | 36° C | 25° C |
| Kerala | 38° C | 27° C |
| Rajasthan | 40° C | 21° C |
| Jammu and Kashmir | 41° C | 25° C |

Plot a double bar graph using the data and answer the following:

A.  Which city has the largest difference in the minimum and maximum temperature on the given data?

B.  Which is the hottest city and which is the coldest city?

C.  Name two cities where maximum temperature of one was less than the minimum temperature of the other.

D.  Name the city which has the least difference between its minimum and maximum temperature.

3. **Consider the following data collected from a survey of a colony.**

| Favourite Sport | Judo | Badminton | Swimming | Cricket | Hockey |
|---|---|---|---|---|---|
| Watching | 250 | 370 | 430 | 1250 | 470 |
| Participating | 110 | 220 | 315 | 740 | 260 |

A.  Draw double bar graph choosing an appropriate scale. What do you predict from the bar graph?

B.  Which sport is most popular?

C.  Which is more preferred, watching or participating in sport?