



# 12

## Smart Charts

| - one






┌ - Two

└ - Three

□ - Four

◻ - Five

### A. Match the columns. (Tally marks with numbers)

| Column A  | Column B |
|---|----------|
| (a)    | i. 8     |
| (b)    | ii. 21   |
| (c)    | iii. 14  |
| (d)   | iv. 12   |
| (e)  | v. 4     |

### B. Make a pictograph from the following data showing the no. of books children have. (Hint:- Scale: ★ = 5 Books)

| Children | No. of Books | No. of Books |
|----------|--------------|--------------|
| Araman   | 35           |              |
| Nayana   | 20           |              |
| Bhoomi   | 45           |              |
| Foram    | 10           |              |
| Maya     | 55           |              |
| Jay      | 25           |              |

### C. Complete the table and answer the questions.

| Games      | Tally marks | Number of children |
|------------|-------------|--------------------|
| Kabaddi    | ☒ ☒ ☒ ☒     | i. _____           |
| Badminton  | ☒ ☒ ☒ ☐     | ii. _____          |
| Cricket    | ☒ ☒ ☒ ☒ ☒   | iii. _____         |
| Kho-Kho    | ☒ ☒         | iv. _____          |
| Football   | ☒ ☒ ☒       | v. _____           |
| Volleyball | ☒ ☒ ☒       | vi. _____          |
| Basketball | ☒ ☐         | vii. _____         |
| Archery    | ☒ ☐         | viii. _____        |
| Hockey     | ☒ ☒ ☐       | ix. _____          |
| Chess      | ☒ ☒ ☒ ☒     | x. _____           |

On the basis of above chart, answer the following questions.

1. How many children are playing Kabaddi?

\_\_\_\_\_

2. How many children are playing Badminton?

\_\_\_\_\_

3. Which game has the most children playing?

\_\_\_\_\_

4. Which game has the least children playing?

\_\_\_\_\_

5. How many children are playing games other than Kabaddi and Badminton?

\_\_\_\_\_

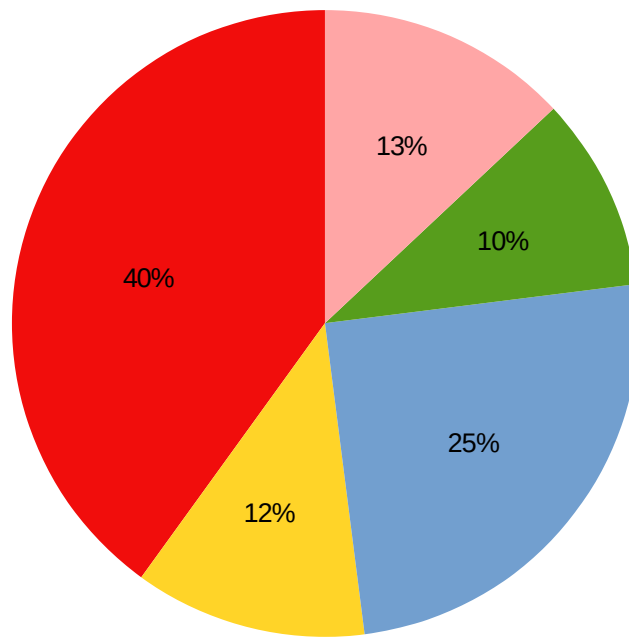
6. How many children are playing games other than Cricket and Hockey?

\_\_\_\_\_

7. Is there a game with an even number of children playing?

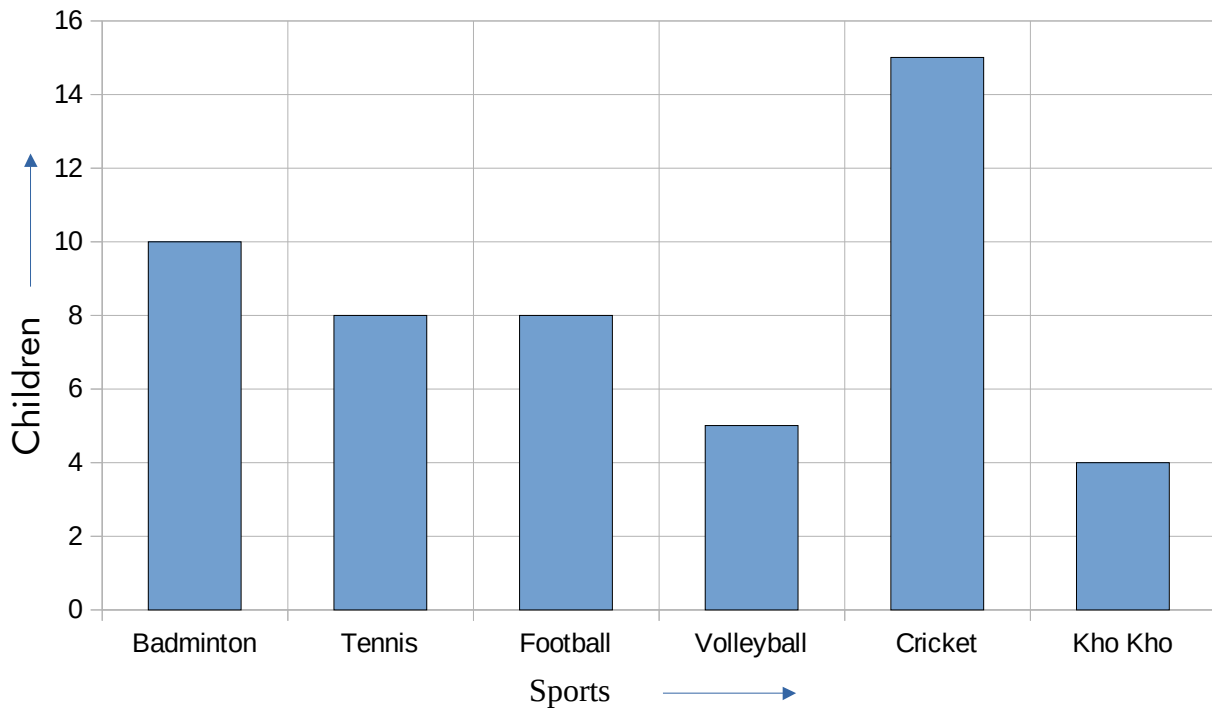
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D. The following graph represents the favourite colours of students in your class. Use the graph and answer the questions.



1. What percentage of the class prefers colours other than red?
2. If there are 60 students in the class, how many students like blue?
3. Which colour is least liked by the students?
4. Compared to green, what percentage more students prefer red?
5. Imagine the class has 50 students. How many students like yellow?
6. If 10 student from red joins the pink colour which would be the most popular colour? Explain your answer.
7. The class teacher decides to equally divide students for each colour, what percentage of students will like each colour?

E. The following bar graph shows the favourite sports of children.



1. Which sport is the most popular among the children in the graph?
2. How many more children prefer Badminton compared to volleyball?
3. Which sports have same numbers of children?
4. Looking at the graph, which is the second most liked sport?
5. Based on the graph, can you predict which sport might see a decrease in children if a new and exciting sport is introduced? Explain your answer.
6. Can you calculate approximately what percentage of students like cricket?

## Answers

A.

(a) - iii (b) - v (c) - iv (d) - i (e) ii

B. 7 stars, 4 stars, 9 stars, 2 stars, 11 stars, 5 stars

C.

i - 17, ii - 19, iii - 23, iv - 10, v - 15, vi - 16, vii - 8, viii - 9, ix - 14, x - 20

1 - 17, 2 - 19, 3 - Cricket, 4 - Basketball, 5 - 115, 6 - 114, 7 - Yes, four games

D.

1 - 60%

2 - Blue is 25%, 25% of 60 =  $60/4 = 15$ 

3 - Green

4 - 30% more prefer Red

5 - Yellow in 12%, So 12% of 50 =  $50 \times 12/100 = 6$ 

6 - Suppose there are total 100 students, 40 like Red, if 10 from red joins pink then pink has 23 students and red has 30 students, still Red has most students.

7 - If each colour gets equal students then each colour has 20% students.

E.

1. Cricket

2. 5 more children prefer badminton

3. Tennis and football

4. Badminton

5. If a new and exciting sport is introduced kho-kho might see a decrease in children as it is least popular sports.

6. 30% play cricket, There are total 50 students and 15 plays cricket  $(15/50) \times 100$