 **Data Handling and Pictographs**  
**Grade 2**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

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**Section A: Drawing Pictographs**

**Instructions: Create a pictograph for each set of data below. Remember to include a title, labels, pictures, and a key!**

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**Q1.** The school library recorded books borrowed in one week:

Day	Books Borrowed
Monday	8
Tuesday	12
Wednesday	6
Thursday	10
Friday	14

Draw a pictograph using  symbol. Each  = 2 books.

**Space for your pictograph:**

**Q2.** A fruit vendor sold fruits on Saturday:

- Apples: 15
- Bananas: 20
- Oranges: 10
- Mangoes: 25
- Grapes: 5

Draw a pictograph. Each picture = 5 fruits

**Space for your pictograph:**

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**Q3.** Students' favorite sports in a class:

Sport	Number of Students
Cricket	9
Football	12
Basketball	6
Swimming	15
Badminton	3

Draw a pictograph. Each symbol = 3 students

**Space for your pictograph:**

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**Q4.** Ice cream cones sold at different times:

- Morning (8-10 AM): 4 cones
- Afternoon (12-2 PM): 16 cones
- Evening (4-6 PM): 20 cones
- Night (8-10 PM): 12 cones

Draw a pictograph using 🍦 . Each 🍦 = 4 cones

**Space for your pictograph:**

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**Q5.** Birds spotted in a park during one month:

Bird Type	Count
Sparrows	18
Pigeons	24
Crows	12
Parrots	6
Peacocks	3

Draw a pictograph. Each symbol = 3 birds

**Space for your pictograph:**

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**Q6.** Vehicles passing through a street in one hour:

- Cars: 28
- Motorcycles: 16
- Buses: 8
- Trucks: 12
- Bicycles: 20

Draw a pictograph. Each picture = 4 vehicles

**Space for your pictograph:**

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**Q7.** Flowers in a garden:

Flower	Quantity
Roses	30
Sunflowers	20
Tulips	25
Daisies	15
Lilies	10

Draw a pictograph. Each symbol = 5 flowers

**Space for your pictograph:**

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**Q8.** Children visiting playground on different days:

- Saturday: 36 children
- Sunday: 48 children
- Monday: 12 children
- Tuesday: 24 children
- Wednesday: 18 children

Draw a pictograph. Each picture = 6 children

**Space for your pictograph:**

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**Q9.** Balloons of different colors at a party:

Color	Number
Red	21
Blue	14
Yellow	28
Green	7
Purple	35

Draw a pictograph. Each symbol = 7 balloons

**Space for your pictograph:**

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**Q10.** Pizzas ordered with different toppings:

- Cheese: 18 pizzas
- Vegetable: 24 pizzas
- Pepperoni: 12 pizzas
- Mushroom: 30 pizzas
- Supreme: 6 pizzas

Draw a pictograph. Each picture = 6 pizzas

**Space for your pictograph:**

## Section B: Reading and Interpreting Pictographs

Instructions: Study each pictograph carefully and answer the questions.

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### Pictograph 1: Favourite Pets Survey

Dogs | 

Cats | 

Birds | 

Fish | 

Rabbits | 

Key: Each picture = 3 students

Q11. How many students like dogs? \_\_\_\_\_

Q12. Which pet is the least favorite? \_\_\_\_\_

Q13. Which pet is the most favorite? \_\_\_\_\_

Q14. How many students like cats? \_\_\_\_\_

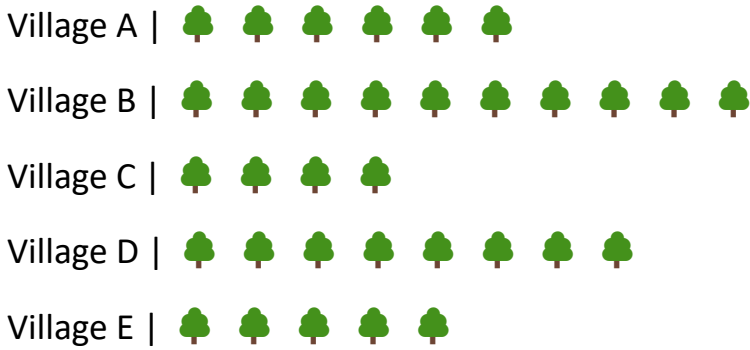
Q15. How many more students like dogs than birds? \_\_\_\_\_

Q16. What is the total number of students surveyed? \_\_\_\_\_

Q17. How many students like fish and rabbits together? \_\_\_\_\_

Q18. Which two pets have a difference of 6 students? \_\_\_\_\_

## Pictograph 2: Trees Planted in Five Villages

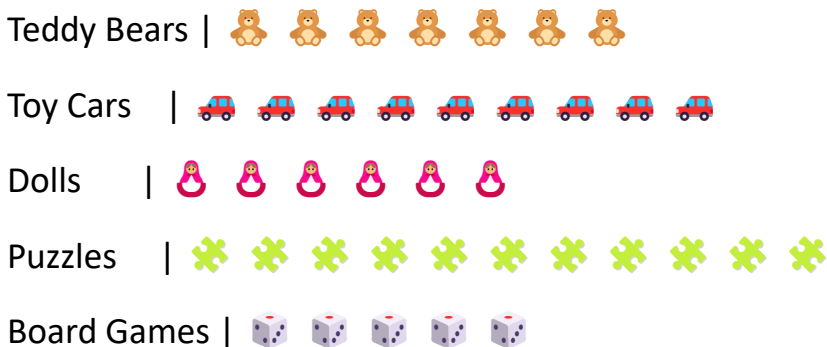


Key: Each  = 5 trees

- Q19.** How many trees were planted in Village B? \_\_\_\_\_
- Q20.** Which village planted the least trees? \_\_\_\_\_
- Q21.** How many trees were planted in Village A and Village E together? \_\_\_\_\_
- Q22.** What is the difference between trees planted in Village B and Village C? \_\_\_\_\_
- Q23.** How many total trees were planted in all villages? \_\_\_\_\_
- Q24.** Which village planted exactly 40 trees? \_\_\_\_\_
- Q25.** How many more trees does Village D need to plant to equal Village B? \_\_\_\_\_

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## Pictograph 3: Toys Sold in a Week



Key: Each picture = 4 toys

Q26. How many toy cars were sold? \_\_\_\_\_

Q27. Which toy was sold the most? \_\_\_\_\_

Q28. How many dolls were sold? \_\_\_\_\_

Q29. What is the total number of toys sold? \_\_\_\_\_

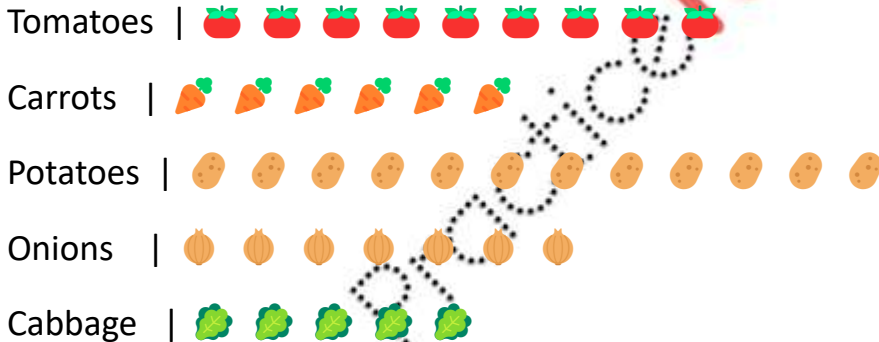
Q30. How many more puzzles were sold than board games? \_\_\_\_\_

Q31. Which toy sold exactly 28 toys? \_\_\_\_\_

Q32. If 8 more teddy bears are sold, how many teddy bears will there be in total? \_\_\_\_\_

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#### Pictograph 4: Vegetables Harvested from Farm



Key: Each picture = 6 kg

Q33. How many kg of tomatoes were harvested? \_\_\_\_\_

Q34. Which vegetable was harvested the most? \_\_\_\_\_

Q35. How many kg of carrots and onions together? \_\_\_\_\_

Q36. What is the difference between potatoes and cabbage? \_\_\_\_\_

Q37. How much total vegetables were harvested? \_\_\_\_\_

**Q38.** If 18 kg more carrots are added, how many pictures will represent carrots? \_\_\_\_\_

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**Pictograph 5: Money Saved by Children**

Rahul | 

Priya | 

Amit | 

Sara | 

Rohan | 

Key: Each  = ₹50

**Q39.** How much money did Priya save? \_\_\_\_\_

**Q40.** Who saved the least money? \_\_\_\_\_

**Q41.** Who saved the most money? \_\_\_\_\_

**Q42.** How much did Rahul and Amit save together? \_\_\_\_\_

**Q43.** What is the difference between Sara's and Rohan's savings? \_\_\_\_\_

**Q44.** What is the total money saved by all children? \_\_\_\_\_

**Q45.** How much more does Amit need to save to equal Priya's savings? \_\_\_\_\_

## Section C: Collecting Data Using Tally Marks

Instructions: Use tally marks to represent the given data and answer questions.

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**Q46.** Rina is counting cars passing by her house. She sees:

- 7 red cars
- 13 white cars
- 9 black cars
- 11 blue cars
- 5 silver cars

Make a tally chart:

Color	Tally Marks	Total
Red		
White		
Black		
Blue		
Silver		

- a) Which color car is most common? \_\_\_\_\_
- b) How many cars did she count in total? \_\_\_\_\_
- c) How many more white cars than silver cars? \_\_\_\_\_

**Q47.** A baker counts cookies sold each day for a week:

- Monday: 16 cookies
- Tuesday: 22 cookies
- Wednesday: 18 cookies
- Thursday: 25 cookies
- Friday: 30 cookies
- Saturday: 28 cookies
- Sunday: 20 cookies

Make a tally chart:

Day	Tally Marks	Total
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		
Sunday		

- a) On which day were most cookies sold? \_\_\_\_\_
- b) On which day were least cookies sold? \_\_\_\_\_
- c) How many cookies were sold on the weekend (Saturday and Sunday)? \_\_\_\_\_

**Q48.** Students recorded the weather for 20 days:

- Sunny days: 8
- Rainy days: 5
- Cloudy days: 4
- Windy days: 3

Make a tally chart:

Weather	Tally Marks	Total
Sunny		
Rainy		
Cloudy		
Windy		

- a) Which weather was most common? \_\_\_\_\_
- b) How many days were NOT sunny? \_\_\_\_\_
- c) What is the difference between sunny and rainy days? \_\_\_\_\_

**Q49.** A zoo recorded visitors who liked different animals:

- Lions: 24 visitors
- Elephants: 31 visitors
- Monkeys: 19 visitors
- Tigers: 27 visitors
- Giraffes: 23 visitors

Make a tally chart:

Animal	Tally Marks	Total
Lions		
Elephants		
Monkeys		
Tigers		
Giraffes		

- a) Which animal was most liked? \_\_\_\_\_
- b) Which animal was least liked? \_\_\_\_\_
- c) How many total visitors were recorded? \_\_\_\_\_

**Q50.** A library tracked book genres borrowed in a month:

- Adventure: 15 books
- Mystery: 22 books
- Fantasy: 18 books
- Science: 12 books
- History: 8 books

Make a tally chart:

Genre	Tally Marks	Total
Adventure		
Mystery		
Fantasy		
Science		
History		

- a) Which genre is most popular? \_\_\_\_\_
- b) How many more Mystery books than History books? \_\_\_\_\_
- c) What is the total number of books borrowed? \_\_\_\_\_

**Q51.** A shopkeeper counts fruits sold:

- Apples: 26
- Bananas: 34
- Oranges: 21
- Grapes: 17
- Mangoes: 29

Make a tally chart:

Fruit	Tally Marks	Total
Apples		
Bananas		
Oranges		
Grapes		
Mangoes		

- a) Which fruit sold the most? \_\_\_\_\_
- b) What is the difference between the most and least sold fruit? \_\_\_\_\_
- c) How many fruits were sold altogether? \_\_\_\_\_

**Q52.** Students recorded their favorite subjects:

- Math: 14 students
- English: 19 students
- Science: 23 students
- Art: 11 students
- Music: 16 students

Make a tally chart:

Subject	Tally Marks	Total
Math		
English		
Science		
Art		
Music		

- a) Which is the most favorite subject? \_\_\_\_\_
- b) How many students like Math and Music together? \_\_\_\_\_
- c) How many students were surveyed? \_\_\_\_\_

**Q53.** A parking lot counted vehicles in an hour:

- Motorcycles: 18
- Cars: 35
- Vans: 12
- Trucks: 9
- Buses: 6

Make a tally chart:

Vehicle	Tally Marks	Total
Motorcycles		
Cars		
Vans		
Trucks		
Buses		

a) Which vehicle was most common? \_\_\_\_\_

b) How many vehicles in total? \_\_\_\_\_

c) How many more cars than buses? \_\_\_\_\_

**Q54.** A garden has different flowers:

- Roses: 28
- Sunflowers: 16
- Tulips: 33
- Daisies: 21
- Lilies: 14

Make a tally chart:

Flower	Tally Marks	Total
Roses		
Sunflowers		
Tulips		
Daisies		
Lilies		

- a) Which flower is most abundant? \_\_\_\_\_
- b) Which flower is least abundant? \_\_\_\_\_
- c) How many flowers in the garden? \_\_\_\_\_

**Q55.** Children collected stickers over a week:

- Ravi: 17 stickers
- Maya: 24 stickers
- Sam: 20 stickers
- Zara: 15 stickers
- Leo: 28 stickers

Make a tally chart:

Child	Tally Marks	Total
Ravi		
Maya		
Sam		
Zara		
Leo		

- a) Who collected the most stickers? \_\_\_\_\_
- b) Who collected the least stickers? \_\_\_\_\_
- c) What is the total number of stickers collected? \_\_\_\_\_

## Section D: Data Handling Word Problems

**Instructions: Solve these real-life data handling problems. Show your work!**

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**Q56.** A class has 30 students. 12 students walk to school, 8 come by bus, 7 come by car, and the rest cycle.

- a) How many students cycle to school? \_\_\_\_\_
- b) Which is the most common way to come to school? \_\_\_\_\_
- c) How many more students walk than cycle? \_\_\_\_\_
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**Q57.** A bakery made 45 cupcakes. By noon, 18 chocolate cupcakes, 12 vanilla cupcakes, and 9 strawberry cupcakes were sold.

- a) How many cupcakes were sold by noon? \_\_\_\_\_
- b) How many cupcakes are left? \_\_\_\_\_

c) Which flavor sold the most? \_\_\_\_\_

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**Q58.** In a survey of 50 children about their favorite season:

- 18 chose Summer
- 15 chose Winter
- 12 chose Autumn
- The rest chose Spring

a) How many children chose Spring? \_\_\_\_\_

b) Which season is most favorite? \_\_\_\_\_

c) What is the difference between Summer and Autumn? \_\_\_\_\_

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**Q59.** A farmer has 72 animals. There are 24 cows, 18 goats, 16 chickens, and the rest are sheep.

- a) How many sheep does the farmer have? \_\_\_\_\_
- b) Which animal does the farmer have the most? \_\_\_\_\_
- c) How many more cows than chickens? \_\_\_\_\_
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**Q60.** A toy store sold 96 toys in a day. 28 were action figures, 22 were dolls, 19 were cars, and the rest were board games.

- a) How many board games were sold? \_\_\_\_\_
- b) Which toy sold the most? \_\_\_\_\_
- c) How many action figures and cars were sold together? \_\_\_\_\_
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**Q61.** In a school fair, 85 ice creams were sold. 32 were chocolate, 26 were vanilla, and 27 were strawberry.

- a) Which flavor sold the most? \_\_\_\_\_

b) How many more chocolate ice creams were sold than vanilla? \_\_\_\_\_

c) What is the total of vanilla and strawberry ice creams? \_\_\_\_\_

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**Q62.** A library has 120 books. 35 are story books, 28 are science books, 32 are math books, and the rest are art books.

a) How many art books are there? \_\_\_\_\_

b) Which type has the most books? \_\_\_\_\_

c) What is the difference between story books and science books? \_\_\_\_\_

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**Q63.** A bird watcher counted 64 birds in a week. On Monday she counted 8, Tuesday 12, Wednesday 11, Thursday 9, Friday 14, and Saturday 10.

a) How many birds were counted on Sunday? \_\_\_\_\_

b) On which day were the most birds counted? \_\_\_\_\_

c) How many birds were counted on weekdays (Monday to Friday)? \_\_\_\_\_

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**Q64.** A fruit seller had 100 fruits. He sold 23 apples, 18 oranges, 15 bananas, and 21 mangoes.

a) How many fruits did he sell in total? \_\_\_\_\_

b) How many fruits are left unsold? \_\_\_\_\_

c) Which fruit did he sell the most? \_\_\_\_\_

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**Q65.** In a parking lot, there are 75 vehicles. 28 are cars, 19 are motorcycles, 15 are vans, and the rest are trucks.

a) How many trucks are there? \_\_\_\_\_

b) Which vehicle is most common? \_\_\_\_\_

c) How many motorcycles and vans together? \_\_\_\_\_

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**Q66.** A garden has 90 plants. 27 are rose plants, 22 are tulip plants, 18 are sunflower plants, and the rest are daisy plants.

a) How many daisy plants are there? \_\_\_\_\_

b) How many more rose plants than sunflower plants? \_\_\_\_\_

c) What is the total of tulip and daisy plants? \_\_\_\_\_

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**Q67.** In a class test, out of 40 students: 15 scored A grade, 12 scored B grade, 8 scored C grade, and the rest scored D grade.

a) How many students scored D grade? \_\_\_\_\_

b) Which grade did most students get? \_\_\_\_\_

c) How many students scored A or B grade? \_\_\_\_\_

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**Q68.** A shopkeeper has 80 cold drinks. 26 are cola, 22 are orange, 17 are lemon, and the rest are grape flavor.

a) How many grape flavored drinks are there? \_\_\_\_\_

b) Which flavor has the least quantity? \_\_\_\_\_

c) What is the difference between cola and lemon drinks? \_\_\_\_\_

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**Q69.** A zoo has 110 animals across 5 sections. Section A has 28 animals, Section B has 24, Section C has 22, Section D has 19, and the rest are in Section E.

a) How many animals are in Section E? \_\_\_\_\_

b) Which section has the most animals? \_\_\_\_\_

c) What is the difference between Section A and Section D? \_\_\_\_\_

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**Q70.** In a school, 95 students voted for their favorite sport. 32 voted for cricket, 27 for football, 21 for basketball, and the rest for badminton.

a) How many voted for badminton? \_\_\_\_\_

b) Which sport is most popular? \_\_\_\_\_


c) How many students voted for cricket and basketball together? \_\_\_\_\_


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 **BONUS CHALLENGE QUESTIONS (10 Extra Points)**

**Q71.** Create your own data collection activity! Survey 10 people about their favorite color and:

a) Record data using tally marks b) Make a pictograph c) Answer 3 questions about your data

**Q72.** A pictograph shows that  = 8 pizzas. If there are  $5\frac{1}{2}$  pizza symbols for Monday's sales, how many pizzas were sold? \_\_\_\_\_

**Q73.** If a pictograph uses  to represent 10 points, and you need to show 75 points, how many full stars and what fraction of a star do you need? \_\_\_\_\_

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## ANSWER KEY

### Section A: Drawing Pictographs (Answers will vary - check for correct representation)

**Q1-Q10:** Students should create pictographs with:

- Clear title
- Proper labels
- Correct number of symbols based on key
- Accurate key notation

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### Section B: Reading and Interpreting Pictographs

**Q11.** 24 students ( $8 \times 3$ ) **Q12.** Birds **Q13.** Dogs **Q14.** 18 students ( $6 \times 3$ ) **Q15.** 12 more students ( $24 - 12$ ) **Q16.** 90 students ( $24 + 18 + 12 + 21 + 15$ ) **Q17.** 36 students ( $21 + 15$ ) **Q18.** Dogs and Birds ( $24 - 12 = 12$ , but difference of 6 students means 18 answer varies based on interpretation - accept Dogs and Cats:  $24 - 18 = 6$ )

**Q19.** 50 trees ( $10 \times 5$ ) **Q20.** Village C **Q21.** 55 trees ( $30 + 25$ ) **Q22.** 30 trees ( $50 - 20$ ) **Q23.** 165 trees ( $30 + 50 + 20 + 40 + 25$ ) **Q24.** Village D ( $8 \times 5$ ) **Q25.** 10 trees ( $50 - 40$ )

**Q26.** 36 toy cars ( $9 \times 4$ ) **Q27.** Puzzles **Q28.** 24 dolls ( $6 \times 4$ ) **Q29.** 164 toys ( $28 + 36 + 24 + 44 + 20$ ) **Q30.** 24 more puzzles ( $44 - 20$ ) **Q31.** Teddy Bears ( $7 \times 4$ ) **Q32.** 36 teddy bears ( $28 + 8$ )

**Q33.** 54 kg ( $9 \times 6$ ) **Q34.** Potatoes **Q35.** 78 kg ( $36 + 42$ ) **Q36.** 42 kg ( $72 - 30$ ) **Q37.** 234 kg ( $54 + 36 + 72 + 42 + 30$ ) **Q38.** 9 pictures ( $36 + 18 = 54$  kg;  $54 \div 6 = 9$ )

**Q39.** ₹500 ( $10 \times 50$ ) **Q40.** Rohan **Q41.** Sara **Q42.** ₹700 ( $₹400 + ₹300$ ) **Q43.** ₹350 ( $₹600 - ₹250$ ) **Q44.** ₹2,050 ( $₹400 + ₹500 + ₹300 + ₹600 + ₹250$ ) **Q45.** ₹200 ( $₹500 - ₹300$ )

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### Section C: Collecting Data Using Tally Marks

**Q46.** a) White b) 45 cars c) 8 more white cars

**Q47.** a) Friday b) Monday c) 48 cookies

**Q48.** a) Sunny b) 12 days c) 3 days

**Q49.** a) Elephants b) Monkeys c) 124 visitors

**Q50.** a) Mystery b) 14 more c) 75 books

**Q51.** a) Bananas b) 17 (34 - 17) c) 127 fruits

**Q52.** a) Science b) 30 students c) 83 students

**Q53.** a) Cars b) 80 vehicles c) 29 more cars

**Q54.** a) Tulips b) Lilies c) 112 flowers

**Q55.** a) Leo b) Zara c) 104 stickers

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### **Section D: Data Handling Word Problems**

**Q56.** a) 3 students b) Walking c) 9 more students

**Q57.** a) 39 cupcakes b) 6 cupcakes c) Chocolate

**Q58.** a) 5 children b) Summer c) 6 children

**Q59.** a) 14 sheep b) Cows c) 8 more cows

**Q60.** a) 27 board games b) Action figures c) 47 toys

**Q61.** a) Chocolate b) 6 more c) 53 ice creams

**Q62.** a) 25 art books b) Story books c) 7 books

**Q63.** a) 0 birds (trick question -  $8+12+11+9+14+10 = 64$ ) Actually: Sunday = 0 or the question has an error Let me recalculate:  $8+12+11+9+14+10 = 64$ , so Sunday = 0

**Q64.** a) 77 fruits b) 23 fruits c) Apples

**Q65.** a) 13 trucks b) Cars c) 34 vehicles

**Q66.** a) 23 daisy plants b) 9 more rose plants c) 45 plants

**Q67.** a) 5 students b) A grade c) 27 students

**Q68.** a) 15 grape drinks b) Grape c) 9 more cola drinks

**Q69.** a) 17 animals b) Section A c) 9 animals

**Q70.** a) 15 students b) Cricket c) 53 students

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### **Bonus Challenge Questions**

**Q71.** Answers will vary - check student work

**Q72.** 44 pizzas ( $5.5 \times 8$ )

**Q73.** 7 full stars and  $\frac{1}{2}$  star ( $75 \div 10 = 7.5$ )

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