Data Through Pictures

Standard difficulty · 20 questions · 40 marks · Time: 54 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. In a pictograph, one picture stands for 2 kites. How many kites do 8 pictures show?
   (a) 18 **(b)** 8 **(c)** 16 **(d)** 10

2. One picture stands for 2 mangoes. How many pictures show 14 mangoes?
   (a) 7 **(b)** 6 **(c)** 14 **(d)** 9

3. A class survey of favourite snacks: samosa 12, poha 17, paratha 7, idli 23. Which was chosen least?
   (a) Idli **(b)** Samosa **(c)** Paratha **(d)** Poha

4. A survey of favourite subjects: EVS 21, art 20, maths 18, English 30. How many more chose EVS than art?
   (a) 11 **(b)** 2 **(c)** 1 **(d)** 41

5. A tally mark bundle of five is drawn as:
   (a) two crosses **(b)** five dots
   (c) one circle **(d)** four lines and one line across them

6. A survey of favourite flowers: marigold 34, sunflower 35, lily 39, rose 21. How many were asked in all?
   (a) 130 **(b)** 129 **(c)** 139 **(d)** 119

7. One picture stands for 2 books. What do 4 and a half pictures show?
   (a) 5 books **(b)** 10 books **(c)** 8 books **(d)** 9 books

8. A tally has 7 bundles of five and 2 single lines. What number does it show?
   (a) 42 **(b)** 9 **(c)** 37 **(d)** 36

Section B — Short answer — 8 × 2 = 16 marks

9. How do you show 39 with tally marks?

10. A survey of favourite subjects: maths 17, English 3, Hindi 5, EVS 21, art 20. How many more chose maths than English? (If fewer, say so.)

11. One picture stands for 2 children. How many pictures do you draw for 8 children?

12. A survey of favourite snacks: poha 24, paratha 21, samosa 27, dhokla 30, idli 18. Which was chosen least, and by how many?

13. A survey of ways to come to school: car 10, bus 31, auto 15, walk 13, cycle 42. How many in all?

14. 1 kg of food wasted could feed 4 children. A school wastes 20 kg of food in a week. How many children could that feed?

15. A survey of favourite colours: yellow 15, blue 3, green 6, red 5. Write the choices from most to least popular.

16. A survey of favourite fruits: apple 21, orange 20, mango 15, guava 26. How many did NOT choose mango?

Section C — Word problems — 4 × 4 = 16 marks

17. Class 5 did a survey of favourite flowers: hibiscus 13, rose 17, sunflower 31, marigold 25, jasmine 33. (a) Which was most popular? (b) Which was least popular? (c) How many children answered? (d) How many more chose the most popular than the least?

18. In a pictograph of favourite games, one picture stands for 3. The pictures drawn are: badminton 4, football 2, cricket 2, kabaddi 9. (a) How many does each row show? (b) What is the total? (c) How many pictures would be drawn for 21?

19. A bar graph shows food wasted in a school canteen: Monday 5 kg, Tuesday 9 kg, Wednesday 2 kg, Thursday 4 kg, Friday 5 kg. (a) What is the total waste for the week? (b) On how many days was it more than 5 kg? (c) If 1 kg feeds 3 children, how many children could the week's waste feed?

20. Hours in a day — Susie: sleeping 9, school 6, play 2, homework 2, TV 0. Arjun: sleeping 9, school 6, play 1, homework 2, TV 0. (a) Who plays more, and by how many hours? (b) How many hours does each spend on these five things? (c) How many hours of Susie's day are left for other things?

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Answer key

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Q	Answer	Working
1	**(c) 16**	8 × 2
2	**(a) 7**	14 ÷ 2
3	**(c) Paratha**	—
4	**(c) 1**	—
5	**(d) four lines and one line across them**	—
6	**(b) 129**	34 + 35 + 39 + 21
7	**(d) 9 books**	4 × 2 + half of 2
8	**(c) 37**	7 × 5 + 2
9	**7 bundles of five and 4 single lines**	39 = 7 × 5 + 4
10	**14**	—
11	**4**	8 ÷ 2
12	**Idli, 18**	—
13	**111**	10 + 31 + 15 + 13 + 42
14	**80**	20 × 4
15	**yellow, green, red, blue**	—
16	**67**	82 − 15
17	**(a) Jasmine; (b) Hibiscus; (c) 119; (d) 20**	—
18	**(a) badminton 12, football 6, cricket 6, kabaddi 27; (b) 51; (c) 7**	each picture × 3
19	**(a) 25 kg; (b) 1; (c) 75**	5 + 9 + 2 + 4 + 5
20	**(a) Susie, by 1; (b) Susie 19, Arjun 18; (c) 5**	a day has 24 hours