Basic Data Concepts

Standard difficulty · 20 questions · 40 marks · Time: 36 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. Facts or figures collected to learn something are called:

(a) loops **(b)** bugs **(c)** algorithms **(d)** data

2. What type of data is the names of the days of the week?

(a) video **(b)** sound **(c)** text **(d)** image

3. Children chose their favourite fruit: mango, grapes, mango, orange, apple, mango, orange, orange, orange, mango, grapes, orange, grapes, orange, orange. How many chose mango?

(a) 4 **(b)** 7 **(c)** 1 **(d)** 3

4. Children chose their favourite fruit: apple, orange, orange, apple, orange, orange, orange, mango, orange, orange, apple, banana, banana, apple, apple, orange, orange, banana, orange, banana. Which fruit was chosen most often?

(a) mango **(b)** apple **(c)** banana **(d)** orange

5. Books read by each class (each 📗 stands for 10 books):
6E: 📗📗📗📗📗
6C: 📗📗📗📗📗📗📗📗 and a half 📗
6D: 📗📗📗📗📗📗📗
6B: 📗📗📗📗📗📗📗
How many books did class 6C read?

(a) 8 **(b)** 75 **(c)** 85 **(d)** 95

6. Goals scored in 5 matches: 26, 19, 10, 23, 26. What is the mode?

(a) 23 **(b)** 10 **(c)** 26 **(d)** 21

7. Heights of plants (in cm): 95, 84, 83, 72, 98, 27, 79. Sorted from tallest to shortest, which height is in place 5?

(a) 79 cm **(b)** 98 cm **(c)** 83 cm **(d)** 72 cm

8. Which is a good way to show the exact number of children in each class?

(a) a table **(b)** a pie chart **(c)** a pictograph **(d)** a bar graph

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

9. What is data? Give an example.

10. Write the type of data (number, text, image or sound): (a) a recording of a song (b) the marks in a test

11. Children chose their favourite fruit: mango, mango, mango, apple, orange, apple, mango, grapes, apple, grapes, mango, mango, grapes, grapes, apple. How many chose mango?

12. Children chose their favourite fruit: apple, apple, apple, banana, grapes, banana, banana, orange, banana, grapes, apple, grapes, apple, grapes, banana, banana, banana, grapes, banana, apple, grapes, banana. Which fruit was chosen most often?

13. Books read by each class (each 📗 stands for 10 books):
6A: 📗📗📗📗
6C: 📗
6E: 📗📗 and a half 📗
6D: 📗📗📗📗📗📗📗📗
How many books did class 6E read?

14. Goals scored in 5 matches: 2, 13, 29, 7, 13. What is the range?

15. Heights of plants (in cm): 97, 83, 78, 37, 24, 89, 45, 81. Sorted from tallest to shortest, which height is in place 6?

16. Marks out of 100:
Name: Art, Science, Maths
Priya: 60, 35, 85
Rahul: 45, 35, 25
Varun: 75, 45, 35
Tara: 100, 70, 60
What is Varun's total in the three subjects?

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

17. Plan a survey of favourite sports in your class. (a) What question will you ask? (b) How will you record answers? (c) How will you show the results?

18. (a) Children chose their favourite fruit: banana, grapes, orange, grapes, banana, banana, banana, mango, banana, orange, banana, banana, orange, orange, grapes. How many chose banana?
(b) Goals scored in 7 matches: 12, 21, 8, 21, 16, 15, 23. What is the mode?

19. (a) Books read by each class (each  stands for 2 books):
6C: 
6E: 
6B:  and a half 
6D: 
How many books did class 6B read?
(b) Goals scored in 7 matches: 25, 26, 27, 5, 11, 26, 15. What is the range?

20. Match each with its type of data: (a) a scanned page of homework (b) the heights of children in a class (c) a message to a friend. Choose from: image; number; text.

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Answer key

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Q	Answer	Working
1	**(d) data**	—
2	**(c) text**	—
3	**(a) 4**	grapes 3, apple 1, orange 7, mango 4
4	**(d) orange**	apple 5, banana 4, mango 1, orange 10
5	**(c) 85**	8 × 10 + 5
6	**(c) 26**	26 appears 2 times
7	**(a) 79 cm**	sorted: 98, 95, 84, 83, 79, 72, 27
8	**(a) a table**	—
9	**Facts or information collected to study something, e.g. the favourite fruits of children in a class.**	—
10	**(a) sound (b) number**	—
11	**6**	grapes 4, mango 6, orange 1, apple 4
12	**banana**	orange 1, apple 6, grapes 6, banana 9
13	**25**	2 × 10 + 5
14	**27**	29 − 2
15	**45 cm**	sorted: 97, 89, 83, 81, 78, 45, 37, 24
16	**155**	75 + 45 + 35
17	**(a) "Which is your favourite sport?" with a few choices. (b) With tally marks against each sport. (c) In a table and a bar graph, so the most popular sport is easy to see.**	—
18	**(a) 7; (b) 21**	(a) banana 7, mango 1, orange 4, grapes 3; (b) 21 appears 2 times
19	**(a) 15; (b) 22**	(a) 7 × 2 + 1; (b) 27 − 5
20	**(a) image (b) number (c) text**	—

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