Patterns Around Us

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. Which number is even?

(a) 499 **(b)** 269 **(c)** 273 **(d)** 452

2. There are 9 rows of cups with 7 in each row. How many cups are there?

(a) 63 **(b)** 16 **(c)** 56 **(d)** 72

3. The numbers just before and just after 41 are:

(a) both odd **(b)** both zero
(c) one odd and one even **(d)** both even

4. 17 and 39 are both odd. Is 17 + 39 even or odd?

(a) It can be either **(b)** Neither
(c) Odd **(d)** Even

5. An even number can be put into pairs with:

(a) nothing left over **(b)** one left over
(c) two left over **(d)** three left over

6. Using the digits 4 and 7 (a digit may repeat), how many 2-digit even numbers can you make?

(a) 2 **(b)** 3 **(c)** 0 **(d)** 1

7. 9 coconut trees each give 7 coconuts. How many coconuts in all?

(a) 70 **(b)** 64 **(c)** 62 **(d)** 63

8. What is the next even number after 315?

(a) 319 **(b)** 317 **(c)** 316 **(d)** 318

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

9. Sort into even and odd: 196, 246, 226, 56, 214, 466.

10. Show Rs 161 using Rs 10, Rs 5, Rs 2 and Rs 1 coins.

11. Write the next three odd numbers after 275.

12. Write the even numbers between 79 and 88.

13. There are 10 stacks with 12 mangoes on each. How many mangoes?

14. Can 80 children stand in pairs with nobody left over? Why?

15. Make two 2-digit numbers with the digits 9 and 5, using each once. Say whether each is even or odd.

16. Show Rs 137 in two different ways using Rs 10 and Rs 5 notes or coins only, plus Rs 1 coins.

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

17. A farm has 8 mango trees. Each tree gives 7 mangoes. The farmer sells 37. How many are left? Is that number even or odd?

18. Write the numbers from 76 to 85. Circle the odd ones. How many odd and how many even numbers are there?

19. Gita has to pay Rs 56 using only Rs 10, Rs 5, Rs 2 and Rs 1 coins. What is the smallest number of coins she can use? Which coins?

20. Chairs are set in 9 rows of 6. Can the children sitting on them pair up with nobody left out? Explain.

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Answer key

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Q	Answer	Working
1	**(d) 452**	even numbers end in 0, 2, 4, 6 or 8
2	**(a) 63**	9 groups of 7
3	**(d) both even**	next to an odd number on both sides are even numbers
4	**(d) Even**	17 + 39 = 56; two odds make an even
5	**(a) nothing left over**	—
6	**(a) 2**	47, 74, 44, 77; even ones: 44, 74
7	**(d) 63**	9 × 7
8	**(c) 316**	—
9	**even: 196, 246, 226, 56, 214, 466; odd: none**	look at the ones digit
10	**16 × Rs 10 + 1 × Rs 1**	any correct way is fine
11	**277, 279, 281**	odd numbers go up in twos
12	**80, 82, 84, 86**	—
13	**120**	10 × 12
14	**Yes: 80 is even, so they make 40 pairs.**	—
15	**95 odd, 59 odd**	—
16	**e.g. 13 × Rs 10 + 1 × Rs 5 + 1 × Rs 2; or 27 × Rs 5 + 2 × Rs 1**	—
17	**19; odd**	8 × 7 = 56; − 37
18	**odd: 77, 79, 81, 83, 85; 5 odd and 5 even**	odd and even numbers take turns
19	**7 coins: 5 × Rs 10 + 1 × Rs 5 + 1 × Rs 1**	use as many of the biggest coins as possible
20	**54 chairs; yes, it is even: 27 pairs**	9 × 6 = 54

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