Number Play

Standard difficulty · 20 questions · 40 marks · Time: 28 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. The digital root of 125906 is:
(a) 23 **(b)** 5 **(c)** 4 **(d)** 6

2. Is 877568 divisible by 11?
(a) No **(b)** Yes
(c) Only if it is even **(d)** You have to divide to tell

3. A number is divisible by 3 if:
(a) its last digit is 3 **(b)** it is odd
(c) the sum of its digits is divisible by 3 **(d)** its last two digits are divisible by 3

4. The remainder when 132 is divided by 12 is:
(a) 11 **(b)** 12 **(c)** 1 **(d)** 0

5. 720 is the sum of three consecutive numbers. The middle one is:
(a) 360 **(b)** 239 **(c)** 241 **(d)** 240

6. Is 230436 divisible by 8?
(a) No **(b)** You have to divide the whole number
(c) Yes **(d)** Only if it ends in 8

7. The digital root of 9876 is:
(a) 30 **(b)** 3 **(c)** 6 **(d)** 9

8. Which of these is divisible by 9?
(a) 7668 **(b)** 7790 **(c)** 7665 **(d)** 7520

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

9. Find the digital root of 2373714. Is 2373714 divisible by 9?

10. Write 2040 as the sum of three consecutive numbers.

11. Use the rule for 11 to check whether 6770197 is divisible by 11. Show the working.

12. 227 leaves a remainder of 3 when divided by 4. Without dividing again, what remainder does 227 + 13 leave?

13. Find the digit that goes in the box so that 72□9 is divisible by 9.

14. Find the sum of the 4 consecutive numbers starting at 260, using a short way.

15. How many factors does 2160 have? List them.

16. Is 69767 divisible by 12? Use the tests for 3 and 4.

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

17. When the students of a school line up in rows of 6, 9 or 5, there is always 1 left over. What is the smallest number of students (more than 1) this could be?

18. Today is Friday. What day of the week will it be 265 days from today?

19. A ticket number 5□222 is divisible by 11. What is the missing digit?

20. A clock shows 10 o'clock. What time will it show (as o'clock) after 139 hours?

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Answer key

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Q	Answer	Working
1	**(b) 5**	1 + 2 + 5 + 9 + 0 + 6 = 23 → 5
2	**(a) No**	21 − 20 = 1
3	**(c) the sum of its digits is divisible by 3**	—
4	**(d) 0**	132 = 11 × 12 + 0
5	**(d) 240**	720 ÷ 3 = 240
6	**(a) No**	look at the last three digits: 436 is not divisible by 8
7	**(b) 3**	9 + 8 + 7 + 6 = 30, 3 + 0 = 3
8	**(a) 7668**	digit sum 27 is a multiple of 9
9	**9; yes**	digit sum 27 → 9
10	**679 + 680 + 681**	the middle number is 2040 ÷ 3
11	**No**	alternate sums 21 and 16; difference 5
12	**0**	3 + 13 = 16; remainder of 16 ÷ 4 is 0
13	**0 or 9**	the other digits add up to 18; the total must be a multiple of 9
14	**1046**	4 × 260 + (0 + 1 + … + 3) = 1040 + 6
15	**40: 1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, 16, 18, 20, 24, 27, 30, 36, 40, 45, 48, 54, 60, 72, 80, 90, 108, 120, 135, 144, 180, 216, 240, 270, 360, 432, 540, 720, 1080, 2160**	factors come in pairs that multiply to the number
16	**No**	by 3: digit sum 35 (no); by 4: last two digits 67 (no)
17	**91 students**	LCM of 6, 9 and 5 is 90; add 1
18	**Thursday**	265 = 37 weeks and 6 days
19	**7**	the alternate digit sums must differ by 0 or a multiple of 11
20	**5 o'clock**	139 = 11 × 12 + 7