

Mental Ability Worksheet

Chapter 10: The Other Side of Zero | Quick Mental Maths (No pen or paper for working!)

Name:	Class:	Section:
Date:	Roll No.:	Marks (out of 25):

Instructions: Time: 15 minutes. Do all 25 questions in your head and write only the final answer. Do not use a calculator. Each question carries 1 mark.

Section A: Fill in the blanks (Q1–Q7)

1. $(-8) + (+8) =$ _____
2. The integer that comes just after -1 on the number line is _____.
3. The additive inverse of -36 is _____.
4. $(+50) - (+80) =$ _____
5. $15 - (-5) =$ _____
6. The number of integers between -3 and 3 (not counting them) is _____.
7. $-100 + 100 + (-1) =$ _____

Section B: Choose the correct answer (Q8–Q13)

8. Which is the greatest: -15 , -5 , -50 or -1 ?
 (a) -15 (b) -5
 (c) -50 (d) -1
9. $(-25) + (-25) = ?$
 (a) 0 (b) -50
 (c) $+50$ (d) -25
10. Which is the smallest: -7 , 0 , -70 or 7 ?
 (a) -7 (b) 0
 (c) -70 (d) 7
11. $(+9) - (+12) = ?$
 (a) $+3$ (b) -3
 (c) $+21$ (d) -21
12. A lift is at Floor -3 and goes up 5 floors. It reaches Floor:
 (a) $+2$ (b) -8
 (c) -2 (d) $+8$
13. $(-2) + (-2) + (+4) = ?$
 (a) $+8$ (b) -8
 (c) 0 (d) $+4$

Section C: True or False (Q14–Q19)

14. $-9 > -8$. (True / False): _____
15. $(-3) + (-3) = -6$. (True / False): _____

16. Zero is the smallest integer. (True / False): _____
17. $(+7) - (+7) = 0$. (True / False): _____
18. $5 - (-5) = 0$. (True / False): _____
19. A temperature of -3°C is colder than -1°C . (True / False): _____

Section D: Solve mentally – write only the answer (Q20–Q25)

20. $(-30) + (+45) =$ _____
21. $(-14) - (-4) =$ _____
22. $100 - 250 =$ _____
23. $(+8) + (-3) + (-9) =$ _____
24. $-19 + 20 =$ _____
25. Start at Floor -6 and press $+4$. Which floor do you reach? $=$ _____

ANSWER KEY – Mental Ability Worksheet**Answers to Q1–Q25**

1.	0	2.	0
3.	+36	4.	-30
5.	20	6.	5
7.	-1	8.	(d) -1
9.	(b) -50	10.	(c) -70
11.	(b) -3	12.	(a) +2
13.	(c) 0	14.	False
15.	True	16.	False
17.	True	18.	False
19.	True	20.	+15
21.	-10	22.	-150
23.	-4	24.	+1
25.	-2		

Quick mental strategies for the teacher

1. Subtracting a negative = adding a positive: $15 - (-5) = 15 + 5 = 20$.
2. A number and its additive inverse always add to zero: $(-8) + (+8) = 0$.
3. Same signs: add the numbers and keep the sign, e.g., $(-25) + (-25) = -50$.
4. Different signs: subtract the smaller number from the bigger and keep the sign of the bigger, e.g., $(-30) + (+45) = +15$.
5. On the number line, the number to the right is always greater; -1 is greater than -15.