➖ Class 6 Integer Subtraction Drill by Thinking Juggernaut ➖

Master Subtracting Positive & Negative Numbers!

📚 CBSE Aligned   ⏱️ Time: 45 minutes   📊 Total: 40 Questions   💯 Marks: 40

📋 How to Use This Drill Sheet

What is a Drill? A drill is focused practice to build speed and accuracy! Like practicing scales on a piano or dribbling in basketball, integer drills help you master the basics. 🎯

Instructions:

- Set a timer for 45 minutes
- Solve all 40 problems as quickly AND accurately as possible
- Show your work for complex problems
- Remember: Subtracting a negative = Adding a positive!
- Use the number line strategy if you get stuck
- Check your answers at the end
- Aim for 100% accuracy, then work on speed

🎯 Integer Subtraction Rules - Master These!

Rule 1: Positive - Positive

Example: 8 - 5 = 3

Example: 3 - 7 = -4

Just subtract normally. If result is negative, write the negative sign.

Rule 2: Positive - Negative

Example: 8 - (-5) = 8 + 5 = 13

Example: 3 - (-7) = 3 + 7 = 10

Two negatives make a positive! Change subtraction to addition.

Rule 3: Negative - Positive

Example: -8 - 5 = -8 + (-5) = -13

Example: -3 - 7 = -3 + (-7) = -10

Add the negative number. Going more negative!

Rule 4: Negative - Negative

Example: -8 - (-5) = -8 + 5 = -3

Example: -3 - (-7) = -3 + 7 = 4

Change to addition, then add the positive number.

🔥 **Golden Rule: a - b = a + (-b)**

Subtracting any number is the same as adding its opposite!

Examples:

• 7 - 3 = 7 + (-3) = 4

• 7 - (-3) = 7 + 3 = 10

• -7 - 3 = -7 + (-3) = -10

• -7 - (-3) = -7 + 3 = -4

Section A: Warm-Up Drills (10 Questions - 1 mark each)

Easy Level - Build Your Foundation!

1. 12 − 7 = _____

2. 15 − 9 = _____

3. 8 − 3 = _____

4. 20 − 15 = _____

5. 5 − 8 = _____

6. 3 − 10 = _____

7. 0 − 6 = _____

8. 14 − 14 = _____

9. 25 - 18 =   _____

10. 11 - 15 =   _____

Section B: Practice Drills - Negative Numbers (15 Questions - 1 mark each)

Medium Level - Challenge Yourself!

11. 7 - (-3) =   _____

12. 10 - (-5) =   _____

13. -8 - 4 =   _____

14. -12 - 7 =   _____

15. -5 - (-5) =   _____

16. -9 - (-3) =   _____

17. 6 - (-8) =   _____

18. -15 - 10 =   _____

19. 0 - (-7) =   _____

20. -20 - (-15) =   _____

21. 12 - (-6) =   _____

22. -7 - (-10) =   _____

23. -3 - 9 =   _____

24. 4 - (-11) =   _____

25. -18 - (-8) =   _____

Section C: Advanced Drills - Multi-Step (15 Questions - 1 mark each)

Challenge Level - Become a Master!

26. $-25 - (-12) =$ _____

27. $30 - (-18) =$ _____

28. $-40 - 25 =$ _____

29. $-16 - (-30) =$ _____

30. $22 - (-22) =$ _____

31. $-50 - (-50) =$ _____

32. $-33 - 17 =$ _____

33. $45 - (-27) =$ _____

34. $-19 - (-19) =$ _____

35. $100 - (-50) =$ _____

36. $-75 - 25 =$ _____

37. $-88 - (-44) =$ _____

38. $64 - (-36) =$ _____

39. $-55 - (-80) =$ _____

40. $-100 - (-100) =$ _____

💡 **Step-by-Step Examples**

Example 1: 7 - (-3)

Step 1: Identify the rule - Positive minus Negative

Step 2: Change subtraction to addition: 7 - (-3) = 7 + 3

Step 3: Add: 7 + 3 = 10

Answer: **10**

Example 2: -15 - 8

Step 1: Identify the rule - Negative minus Positive

Step 2: Change to addition of negative: -15 - 8 = -15 + (-8)

Step 3: Add the negatives: -15 + (-8) = -23

Answer: **-23**

Example 3: -12 - (-20)

Step 1: Identify the rule - Negative minus Negative

Step 2: Change to addition: -12 - (-20) = -12 + 20

Step 3: Start at -12, move 20 steps right: -12 + 20 = 8

Answer: **8**

📏 Number Line Strategy

Remember:

- Subtraction = Moving LEFT on the number line ⬅️

- But subtracting a negative = Moving RIGHT! ➡️

... −5 — −4 — −3 — −2 — −1 — 0 — 1 — 2 — 3 — 4 — 5 ...

📊 How Did You Do?

Total Marks: 40

- 🏆 Integer Master: 36-40 marks (Perfect or near-perfect!)
- ⭐ Integer Expert: 31-35 marks (Excellent work!)
- 👍 Integer Pro: 26-30 marks (Very good!)
- 📚 Developing: 21-25 marks (Keep practicing!)
- 🔍 Needs Practice: Below 21 marks (Review the rules and try again!)

⏱️ **Speed Challenge Goals:**

- **Beginner:** Complete in 45 minutes with 80%+ accuracy
- **Intermediate:** Complete in 30 minutes with 85%+ accuracy
- **Advanced:** Complete in 20 minutes with 90%+ accuracy
- **Master Level:** Complete in 15 minutes with 95%+ accuracy

🔑 Answer Key

Section A: Warm-Up Drills (1-10)

1. 5	2. 6	3. 5	4. 5
5. -3	6. -7	7. -6	8. 0
9. 7	10. -4		

Section B: Practice Drills (11-25)

11. 10	12. 15	13. -12	14. -19

15. 0	16. -6	17. 14	18. -25
19. 7	20. -5	21. 18	22. 3
23. -12	24. 15	25. -10	

Section C: Advanced Drills (26-40)

26. -13	27. 48	28. -65	29. 14
30. 44	31. 0	32. -50	33. 72
34. 0	35. 150	36. -100	37. -44
38. 100	39. 25	40. 0	

📝 Detailed Solutions for Tricky Problems

Q11: 7 - (-3) = ?

Step 1: Subtracting a negative = Adding a positive

Step 2: 7 - (-3) = 7 + 3 = **10**

Q13: -8 - 4 = ?

Step 1: Negative minus positive = Add more negative

Step 2: -8 - 4 = -8 + (-4) = **-12**

Q16: -9 - (-3) = ?

Step 1: Negative minus negative = Add positive

Step 2: -9 - (-3) = -9 + 3 = **-6**

Think: Start at -9, move 3 steps right to -6

Q29: -16 - (-30) = ?

Step 1: Negative minus negative = Add positive

Step 2: -16 - (-30) = -16 + 30 = **14**

The positive number is bigger, so result is positive!

Q35: 100 - (-50) = ?

Step 1: Positive minus negative = Add positive

Step 2: 100 - (-50) = 100 + 50 **150**

Remember: Two negatives always make a positive!

🎓 Tips to Master Integer Subtraction

- **Practice Daily:** Do 10-15 problems every day to build automatic recall 🔁
- **Use the "Add the Opposite" Rule:** Always convert subtraction to addition - it makes everything easier!
- **Visualize a Number Line:** Mentally see yourself moving left or right on the number line
- **Check Your Signs:** Before calculating, identify if you're dealing with --(-), --(+), (-)-(+), or (+)--(+)
- **Common Mistakes to Avoid:**
  - ❌ Don't forget to change the sign when subtracting negatives
  - ❌ Don't mix up "minus a negative" with "minus a positive"
  - ❌ Don't rush - accuracy first, then speed

- ❌ Don't forget that subtracting is the same as adding the opposite

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🎉 **Great Job Completing This Drill!** 🎉

Practice makes perfect - keep drilling and you'll master integers!

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