

Boost Free Lessons - Year 7 Maths

Lesson 3: Subtracting Integers

Name: _____ Grade: _____ Date: _____

Worked Example 1

Evaluate $5 - 9$

1. Start at 5 on the number line and move to the left.
2. Move 5 places left to reach 0. There are still 4 places to go.
3. Continuing 4 places left of zero gives -4 .

$= -4$

Worked Example 2

Evaluate $-6 - (-10)$

1. Two minus signs next to each other become a plus: $-6 - (-10) = -6 + 10$.
2. Start at -6 on the number line and move to the right.
3. Move 6 places right to reach 0. That uses up 6 of the 10.
4. There are still 4 places to go, so keep moving right from zero to 4.

$= 4$

Remember: Subtracting a negative is the same as adding a positive. Two minus signs side by side become a plus.



Question 1: Evaluate the following.

1. $4 - 7$

2. $-2 - 6$

3. $10 - 15$

4. $-5 - (-3)$

5. $8 - (-4)$

6. $-9 - (-9)$

7. $-12 - 7$

8. $0 - 14$

9. $6 - (-11)$

10. $-20 - (-25)$



Question 2: Evaluate the following.

1. $-3 + 5 - 8$

2. $12 - (-4) + (-6)$

3. $-7 - 2 + 15$

4. $9 - 13 - (-5)$

5. $-10 + (-5) - (-8)$

6. $22 - 30 + 4$

7. $-1 - (-1) - 1$

8. $16 - (-9) - 20$

9. $-14 + 6 - (-14)$

10. $5 - 8 - 9 + 3$



Question 3: Answer the following questions.

1. Mt Kosciuszko is 2 228 m above sea level. The shore of the Dead Sea is 430 m below sea level (-430 m). Find the difference in height.
2. The temperature falls from 3°C to -8°C . By how many degrees did it fall?
3. A diver at -18 m descends a further 14 m. What is her depth now?
4. Zara's account balance is $-\$45$. She is then charged a $\$12$ fee. What is her new balance?
5. A quiz team is on -5 points and then loses another 7 points. What is their score?





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Answers : Subtracting Integers**Question 1**

- | | |
|-------|--------|
| 1. -3 | 6. 0 |
| 2. -8 | 7. -19 |
| 3. -5 | 8. -14 |
| 4. -2 | 9. 17 |
| 5. 12 | 10. 5 |

Question 2

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

Question 3

1. $2\,228 - (-430) = 2\,658$ m
2. 11°C
3. -32 m
4. -\$57
5. -12

