

Boost Free Lessons - Year 7 Maths

Lesson 2: Adding Integers

Name: _____ Grade: _____ Date: _____

Worked Example 1

Evaluate $-7 + 4$

1. Start at -7 on the number line.
2. Adding a positive number means moving to the right.
3. Move 4 places right: $-7 \rightarrow -6 \rightarrow -5 \rightarrow -4 \rightarrow -3$.

$= -3$

Worked Example 2

Evaluate $-5 + (-8)$

1. A plus and a minus next to each other become a minus, so $-5 + (-8)$ becomes $-5 - 8$.
2. Start at -5 on the number line.
3. Subtracting means moving to the left, so move 8 places left.
4. -5 is already 5 places below zero, and 8 more takes you to 13 places below zero.

$= -13$

Remember: Same signs $\rightarrow$ add the numbers and keep the sign. Different signs $\rightarrow$ subtract the smaller from the larger and keep the sign of the larger.



Question 1: Evaluate the following.

1. $-3 + 8$

2. $6 + (-9)$

3. $-4 + (-7)$

4. $-12 + 5$

5. $15 + (-15)$

6. $-20 + 8$

7. $-6 + (-6)$

8. $11 + (-4)$

9. $-9 + 14$

10. $-25 + (-13)$



Question 2: Evaluate the following.

1. $-5 + 3 + (-2)$

2. $7 + (-10) + 4$

3. $-8 + (-4) + 12$

4. $-6 + 9 + (-5)$

5. $14 + (-7) + (-9)$

6. $-11 + (-3) + 20$

7. $-2 + (-2) + (-2)$

8. $30 + (-16) + (-9)$

9. $-18 + 6 + 7$

10. $-13 + 13 + (-4)$



Question 3: Answer the following questions.

1. The temperature in Orange is -4°C at 6 am and rises 9°C by midday. What is the midday temperature?
2. A submarine sits at -60 m. It rises 25 m. What is its new depth?
3. Zoe has \$85 in her account and withdraws \$120. Write this as an addition and find her balance.
4. A lift starts at level -3 , goes up 7 levels, then down 2 levels. Which level is it on?
5. In a card game Ari scores -15 , then $+40$, then -12 . What is his total score?





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Answers : Adding Integers**Question 1**

- | | |
|--------|---------|
| 1. 5 | 6. -12 |
| 2. -3 | 7. -12 |
| 3. -11 | 8. 7 |
| 4. -7 | 9. 5 |
| 5. 0 | 10. -38 |

Question 2

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

Question 3

1. 5°C
2. -35 m
3. $85 + (-120) = -\$35$
4. Level 2
5. 13

