

## 139. Adding and Subtracting with Negative Numbers

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#### Practice Questions

1. Calculate:  $-3 + 5$
2. Calculate:  $-7 - 4$
3. Calculate:  $6 + (-9)$
4. Calculate:  $-8 - (-3)$
5. Calculate:  $-10 + 15$
6. Calculate:  $-12 - (-7)$
7. Calculate:  $4 - 10$
8. Calculate:  $-5 + (-6)$
9. Calculate:  $-20 + 25$
10. Calculate:  $-15 - (-10)$

#### Scenario Questions

1. The temperature was  $-5^{\circ}\text{C}$  and it rose by  $8^{\circ}\text{C}$ . What is the new temperature?
2. A submarine is at  $-120$  meters below sea level. It ascends  $45$  meters. What is its new depth?
3. Sarah has a debt of  $\text{£}50$ . She pays back  $\text{£}20$ . How much does she still owe?
4. A football team loses  $3$  yards on the first play and then gains  $7$  yards on the second play. What is their net gain or loss?
5. The temperature in a freezer is  $-18^{\circ}\text{C}$ . It warms up by  $5^{\circ}\text{C}$ . What is the new temperature?
6. A bank account has a balance of  $-\text{£}100$ . A deposit of  $\text{£}150$  is made. What is the new balance?
7. A hiker is at an altitude of  $-200$  meters. She climbs  $300$  meters. What is her new altitude?
8. A company's profit was  $-\text{£}5000$  last month. This month they make a profit of  $\text{£}3000$ . What is their net profit over the two months?
9. The temperature drops from  $5^{\circ}\text{C}$  to  $-3^{\circ}\text{C}$ . By how many degrees did the temperature drop?
10. A diver is at  $-30$  meters. She dives down another  $10$  meters. What is her new depth?

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### Practice Questions

1.  $-3 + 5 = 2$
2.  $-7 - 4 = -11$
3.  $6 + (-9) = -3$
4.  $-8 - (-3) = -5$
5.  $-10 + 15 = 5$
6.  $-12 - (-7) = -5$
7.  $4 - 10 = -6$
8.  $-5 + (-6) = -11$
9.  $-20 + 25 = 5$
10.  $-15 - (-10) = -5$

### Scenario Questions

1.  $-5^{\circ}C + 8^{\circ}C = 3^{\circ}C$
2.  $-120m + 45m = -75m$
3.  $-\pounds 50 + \pounds 20 = -\pounds 30$
4.  $-3 + 7 = 4$  yards (net gain)
5.  $-18^{\circ}C + 5^{\circ}C = -13^{\circ}C$
6.  $-\pounds 100 + \pounds 150 = \pounds 50$
7.  $-200m + 300m = 100m$
8.  $-\pounds 5000 + \pounds 3000 = -\pounds 2000$
9.  $5^{\circ}C - (-3^{\circ}C) = 8^{\circ}C$  (temperature dropped by  $8^{\circ}C$ )
10.  $-30m - 10m = -40m$

A large black circle containing the word 'Answers' in white text.

Answers