

## Working with Negatives

### Real life examples

1. The depth of Death Valley is  $-86$  meters. If a plane flies directly overhead at  $1000$  meters, what is the difference in elevation between the plane and Death Valley?
2. Sarah owes her friend  $\text{£}30$ . She repays her friend  $\text{£}23$ . How much does Sarah owe now?
3. A submarine is at  $-150$  meters below sea level. It rises  $80$  meters. What is its new depth?
4. John lost  $20$  points in a game, bringing his score to  $-15$ . What was his original score?
5. The temperature dropped from  $5$  to  $-3$ . By how many degrees did the temperature drop?
6. Mark had  $-\text{\$}200$  in his bank account. He received a paycheck of  $\text{\$}450$ . What is his new account balance?
7. A car drove  $50$  kilometers north and then  $70$  kilometers south. What is its final position relative to the starting point?
8. The stock price dropped by  $5$  dollars per share each day for  $3$  days. What is the total change in the stock price?
9. A scuba diver is  $-30$  meters below sea level. He dives another  $10$  meters. What is his final depth?
10. If the temperature is  $-12$  and it drops by another  $7$  what is the new temperature?
11. The temperature is  $-12$  and it gets twice as cold. What is the new temperature?

12. If a diver's depth is -25 meters and he descends three times as far, what is his new depth?

13. A debt of -\$300 is split equally among 6 people. How much does each person owe?

14. The stock market value drops by 5 points per day for 4 days. What is the total change?

15. A company's loss is -\$500 and it is shared equally among 10 shareholders. What is each shareholder's loss?

## Answers

1. 1086 meters
2. £7
3. -70 meters
4. 5
5. 8 degrees
6. \$250
7. -20 kilometers
8. -15 dollars
9. -40 meters
10. -19
11. -24
12. -75 meters
13. -\$50
14. -20 points
15. -\$50