

Add and Subtract Integers

1. The temperature is rising so we add a positive number.

Addition sentence:

- The temperature was -3°C . Then it rose 4 degrees. Now it is _____.
- The temperature was -5°C . Then it rose 2 degrees. Now it is _____.
- The temperature was -9°C . Then it rose 4 degrees. Now it is _____.
- The temperature was -1°C . Then it rose 7 degrees. Now it is _____.
- The temperature was -2°C . Then it rose 5 degrees. Now it is _____.
- The temperature was -10°C . Then it rose 3 degrees. Now it is _____.

$$^{-}3 + 4 = 1$$

2. The temperature is dropping so we subtract a positive number.

Subtraction sentence:

- The temperature was 3°C . It dropped 4 degrees. Now it is _____.
- The temperature was 7°C . It dropped 10 degrees. Now it is _____.
- The temperature was 5°C . It dropped 8 degrees. Now it is _____.
- The temperature was -1°C . It dropped 5 degrees. Now it is _____.
- The temperature was -7°C . It dropped 7 degrees. Now it is _____.
- The temperature was -10°C . It dropped 2 degrees. Now it is _____.

3. Solve the problems, and observe the patterns.

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|------------------------------|----------------------------------|----------------------------------|----------------------------------|
| a. $5 - 4 =$ _____ | b. $^{-}4 - 0 =$ _____ | c. $^{-}3 + 0 =$ _____ | d. $^{-}2 + 2 =$ _____ |
| $5 - 5 =$ _____ | $^{-}4 - 1 =$ _____ | $^{-}3 + 1 =$ _____ | $^{-}2 + 3 =$ _____ |
| $5 - 6 =$ _____ | $^{-}4 - 2 =$ _____ | $^{-}3 + 2 =$ _____ | $^{-}2 + 4 =$ _____ |
| $5 - 7 =$ _____ | $^{-}4 - 3 =$ _____ | $^{-}3 + 3 =$ _____ | $^{-}2 + 5 =$ _____ |
| $5 - 8 =$ _____ | $^{-}4 - 4 =$ _____ | $^{-}3 + 4 =$ _____ | $^{-}2 + 6 =$ _____ |

4. Match the equations with the situations, and complete the missing parts.

- A diver was at the depth of 20 ft. Then he rose 15 ft.
Now he is at _____ ft.
- John had \$15. He had to pay his dad \$20. Now he _____.
- John had a \$15 debt. He earned \$20. Now he _____.
- A ball was dropped from 15 ft above the sea; it fell 20 ft.
Now the ball is at _____ ft.
- The temperature was 20°C and fell 15° . Now it is _____ $^{\circ}\text{C}$.

$$15 - 20 = \text{_____}$$

$$^{-}15 + 20 = \text{_____}$$

$$^{-}20 + 15 = \text{_____}$$

$$20 - 15 = \text{_____}$$

$$15 - 20 = \text{_____}$$