

Johnny goes outside over a period of several days. He measures the temperature, as shown below. The temperature is measured in degrees celsius. Find the average temperature over the four days.

Day 1	Day 2	Day 3	Day 4
T=5	T=-3	T=2	T=-6

1)

$$\text{Avg. Temperature} = \frac{(5) + (-3) + (2) + (-6)}{4} = \frac{5 - 3 + 2 - 6}{4} = \frac{2 + 2 - 6}{4} = \frac{4 - 6}{4} = \frac{-2}{4} = \frac{2 \cdot -1}{2 \cdot 2} = \frac{-1}{2} = -0.5$$

2) This means on average, a puddle of water would be frozen since 0 degrees on the celsius scale corresponds to freezing.

3) Example of simplifying fractions: $\frac{12}{24} = \frac{12 \cdot 1}{12 \cdot 2} = \left(\frac{12}{12}\right) \cdot \left(\frac{1}{2}\right) = 1 \cdot \frac{1}{2} = \frac{1}{2}$