

Suppose 23.4 g of a metal completely reacted in 29.3 s. Calculate the rate of reaction.

$$\text{Rate of Reaction} = \frac{\text{Mass of metal (g)}}{\text{Time for metal to react (s)}} = \frac{23.4 \text{ g}}{29.3 \text{ s}} = 0.80 \text{ g/s}$$

This means 0.80 g of metal reacted every second. This is what the rate of reaction means.