

How many moles of copper are required to produce 10 mol of silver?



Solution:



Find the equation of the reaction mole of copper needed to produce 10 moles of silver.

In the ratio of:

$$\frac{n(\text{Cu})}{n(\text{Ag})} = \frac{1}{2}$$

$$n(\text{Cu}) = \frac{n(\text{Ag})}{2}$$

$$n(\text{Cu}) = \frac{10\text{mole}}{2} = 5\text{mole}$$

Answer: 5 mole of copper.