

Color by Number: The Mole ☺

Directions: Convert the amounts of each substance in the picture into moles. Then color the picture according to the key listed on the right.

THE MOLE

22.4L N₂ 156.24g C₆H₆ 36.03g C 89.60L Cl₂ 279.25g Fe 447.30g KCl 126.14g H₂O

3.61x10²⁴ atoms Na 89.60L Cl₂

22.4L N₂ 201.6 L CO₂ 447.30g KCl

6.02x10²³ molec NO₂ 291.68g HCl 2.408x10²⁴ molec NH₃

179.2L Ar 279.25g Fe 179.2L O₂

132.03g CO₂ 4.816x10²⁴ atoms Mg 16.16g H₂ 4.214x10²⁴ atoms He

120.1g C 18.18g H₂

36.03g C 16.0g He 558.5g Fe

1.204x10²⁴ molec F₂ 243.1g Mg 224L F₂

6.02x10²⁴ molec I₂ 20.2g H₂ 179.2L Ne

156.24g C₆H₆ 180.2g H₂O 126.14g H₂O

200.1g HF 120.1g C 224L SF₆

403.1g MgO 22.4L Kr

55.53g Li 72.08g Be

112.0L CH₄ 3.01x10²⁴ atoms K 12.01g C 110.98g CaCl₂

Color Key:

- 1 mole - red
- 2 moles - orange
- 3 moles - yellow
- 4 moles - green
- 5 moles - light blue
- 6 moles - blue
- 7 moles - purple
- 8 moles - brown
- 9 moles - black
- 10 moles - gray