

QUANTUM NUMBERS WORKSHEET

1. State the four quantum numbers, then explain the possible values they may have and what they actually represent.

n – Principal Quantum Number: represents the energy level the electron is in, linked to the periods of the periodic. Can be 1 to 7

l – Secondary Quantum Number/Orbital Shape Quantum number: represents the shape of the orbital- s, p, f, d. l is a range of $n-1$.

m_l – Magnetic quantum number: represents the number of orbits possible. M_l is a range of l .

m_s – Spin Quantum number: represents the electron and its spin. Two possibilities $+1/2$, $-1/2$

2. State the number of possible electrons described by the following quantum numbers

- a. $n = 3, l = 0$ **2**
- b. $n = 3, l = 1$ **6**
- c. $n = 3, l = 2, m_l = -1$ **2**
- d. $n = 5, l = 0, m_l = -2, m_s = -1/2$ **Not possible**

3. Give the n and l values for the following orbitals

- a. 1s **$n=1 l=0$**
- b. 3s **$n=3 l=0$**
- c. 2p **$n=2 l=1$**
- d. 4d **$n=4 l=2$**
- e. 5f **$n=5 l=3$**

4. What are the m_l values for the following types of orbitals?

- a. s **$m_l=0$**
- b. p **$m_l=-1, 0, 1$**
- c. d **$m_l=-2, -1, 0, 1, 2$**
- d. f **$m_l=-3, -2, -1, 0, 1, 2, 3$**

6. How many possible orbitals are there for $n =$

- a. 4 **s-1, p-3, d-5, f-7= 16 orbitals**
- b. 6 **9 orbitals**

Math Skills Transparency Worksheet Answers Chapter 14

Michael Rajnik



Math Skills Transparency Worksheet Answers Chapter 14:

Embracing the Tune of Appearance: An Psychological Symphony within **Math Skills Transparency Worksheet Answers Chapter 14**

In a world used by displays and the ceaseless chatter of quick connection, the melodic beauty and psychological symphony produced by the written term usually disappear into the background, eclipsed by the constant noise and distractions that permeate our lives. However, nestled within the pages of **Math Skills Transparency Worksheet Answers Chapter 14** a marvelous literary value full of raw feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that charming masterpiece conducts visitors on a mental trip, well unraveling the concealed tunes and profound impact resonating within each cautiously crafted phrase. Within the depths with this emotional evaluation, we will examine the book is key harmonies, analyze its enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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