

## Chapter 4 – Atomic Structure

**Short Answer:** Answer the following questions in complete sentences using science vocabulary. Make sure that your answers are complete and detailed.

1. A sample of calcium contains calcium-40, calcium-44, calcium-42, calcium-48, calcium-43, and calcium-46 atoms. Explain why these atoms have different mass numbers but must have the same atomic number.

*The atoms have different mass numbers because they have a different number of neutrons. The mass number is equaled to the number of protons plus neutrons.*

*The atoms must have the same atomic number because the atomic number is equaled to the number of protons. The number of protons is unique for each element.*

2. Complete the following table. Circle the name of the element(s) that are isotopes. Complete Bohr's Model diagrams for the element with eleven electrons and the element with an atomic number of 9.

Element Name	Element Symbol	Atomic Number	Mass Number	Protons	Neutrons	Electrons
Scandium	Sc	21	45	21	24	21
Fluorine	F	9	19	9	10	9
Sodium	Na	11	24	11	13	11
Answers Vary					82	

# Chapter 4 Atomic Structure Worksheet Answers

**Gurukul**



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drift monkey drift of about 1 metre is driven on the working face

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web apr 25 2013 the forepoling is an old method and it can be used successfully for carrying out tunnelling operations through ground needle beam method this method is useful when the soil is hard enough to stand for few minutes

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web dec 1 2020 in this article we covers needle beam method of tunneling in soft ground factor affecting the choice of a method size of tunnel type of ground available equipment method of sequence of excavation needle beam method needle beam method suitable for firm ground and brick

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web the needle beam method fig 30 8 is adopted in terrains where the soil permits the roof of the tunnel section to stand without support for a few minutes in this method a small drift is prepared for inserting a needle beam consisting of two rail steel rs joists or i sections and is bolted together with a wooden block in the centre

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