**ACTIVITY #6**

1. **Matching heading definition.**

| **Headings** | **Answer** | **Definition** |
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| Quantum Artificial Intelligence (QAI) |  | A. The integration of quantum computing and artificial intelligence, promising significant improvements in AI capabilities. |
| Hybrid Quantum-Classical AI Models |  | B. The fundamental units of quantum information in quantum computing, capable of representing both 1 and 0 simultaneously. |
| Qubits |  | C. The deliberate collision of quantum mechanics and artificial intelligence, poised to revolutionize computing. |
| Quantum Computing |  | D. AI models that combine quantum and classical computing elements, allowing for advanced algorithm prototyping. |
| TensorFlow Quantum (TFQ) |  | E. A platform by Google for prototyping hybrid quantum-classical AI models, facilitating experimentation with quantum machine learning. |