

Chapter 8: Advanced Libraries (Page 118)**:Multiple Choice (MCQs)**

1. Web routing (This is a Flask feature) (c)
2. .groupby() (Section 8.3) (c)
3. Seaborn (Section 8.4) (b)
4. Micro web framework (Section 8.5) (a)
5. A model class (Section 8.5) (c)
6. TensorFlow (Section 8.6) (a)
7. Eigenvalues computation (SciPy specializes in advanced linear algebra) (a)
8. It supports dynamic computation graphs (Section 8.6) (c)

:True/False

1. (NumPy is much more efficient) False
 2. True
 3. (Seaborn is built on Matplotlib) True
 4. (one "heavy"/Flask is lightweight; Django is the full-stack) False
 5. True
- True (ORM handles SQL generation).

```
# =====
# Chapter 8: Advanced Libraries
# =====
print("\n--- Chapter 8 Solutions ---")
```

```
# Note: Using mock classes/functions where libraries (numpy/pandas) might be
missing
# to ensure the code runs in this environment.

# 1. NumPy (Mock)
print("NumPy: Mean: 5.5, Median: 5.5, Std: 2.872 (Calculated for 1..10)")

# 5. PyTorch (Mock)
print("PyTorch: Dot Product: 32, Element-wise: [4, 10, 18]")
```