

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

.Web routing (This is a Flask feature) (c .1

.groupby() (Section 8.3) (c .2

.Seaborn (Section 8.4) (b .3

.Micro web framework (Section 8.5) (a .4

.A model class (Section 8.5) (c .5

.TensorFlow (Section 8.6) (a .6

Eigenvalues computation (SciPy specializes in advanced linear (a .7
.algebra)

.It supports dynamic computation graphs (Section 8.6) (c .8

:True/False

.(NumPy is much more efficient) **False** .1

True .2

.(Seaborn is built on Matplotlib) **True** .3

.(one "heavy"/Flask is lightweight; Django is the full-stack) **False** .4

True .5

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]")
```