Calculation with Code

Python Calculation

```python
# Simply supported beam
L = 6.0   # meters
w = 15.0   # kN/m

# Maximum moment
M_max = w * L**2 / 8
print(f"Maximum moment: {M_max:.2f} kN·m")
```

Results

The calculation shows that the maximum moment is 67.50 kN $\cdot$ m.