

## Numbers and Math - Solution 2

**Note:** Code copied from PDF files may have some spaces and blank lines removed. The original formatting is preserved in the code files in the zip archive linked at the beginning of the course.

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```
#!/usr/bin/env python3

# The cost of one server per hour.
cost_per_hour = 0.51

# Compute the costs for one server.
cost_per_day = 24 * cost_per_hour
cost_per_month = 30 * cost_per_day

# Compute the costs for twenty servers
cost_per_day_twenty = 20 * cost_per_day
cost_per_month_twenty = 20 * cost_per_month

# Budgeting
budget = 918
operational_days = budget / cost_per_day

# Display the results.
print('Cost to operate one server per day is ${:.2f}'.format(cost_per_day))
print('Cost to operate one server per month is ${:.2f}'.format(cost_per_month))
print('Cost to operate twenty servers per day is ${:.2f}'.format(cost_per_day_twenty))
print('Cost to operate twenty servers per month is ${:.2f}'.format(cost_per_month_twenty))
print('A server can operate on a ${0:.2f} budget for {1:.0f} days.'.format(budget, operational_days))
```