MCP SERVER | NO CODE | CLOUD HOSTED

Square Footage Rent Comparer MCP for AI Agents

Calculate fair roommate rent splits based on actual room dimensions.

Square Footage Rent Comparer fairly splits monthly rent between roommates based on room square footage. It handles the math so you don't have to worry about rounding errors or unfair distributions.

A+ Quality Score 100/100

rent | roommates | split-rent | square-footage | finance-tool

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vinkius.com/mcp/square-footage-rent-comparer

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

Square Footage Rent Comparer MCP

3 tools available
Cloud-hosted on Vinkius

Stop arguing about who owes what when moving into a new place. This utility takes the guesswork out of roommate agreements by letting your AI client handle the math. Instead of doing manual calculations on a napkin, you can just tell your agent the total rent and the dimensions of each bedroom. It handles the proportions for you, ensuring that the person with the master suite pays their fair share without any rounding disputes. You can even use it to double-check how much bigger one room is than another to keep things transparent. Because it's hosted on Vinkius, you can plug this directly into your favorite AI client and get instant, accurate numbers every time you need to settle the books. It's about moving past the awkward conversation and getting straight to a fair agreement.

Core Capabilities

01 — Calculate exact rent amounts

Get the specific dollar amount each roommate owes based on their room size.

02 — Compare room dimensions

See exactly how many times larger one bedroom is compared to another.

03 — Verify input data

Check if your rent and square footage numbers make sense before you run the final math.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/square-footage-rent-comparer** — connect your AI agent in three steps.

01 Provide the total monthly rent and the square footage for every room in the apartment.

02 Tell your agent to calculate the split or compare specific rooms.

03 Get a breakdown of the exact dollar amounts for each roommate.

The bottom line is you get a mathematically fair rent split that eliminates roommate friction.

Built For

This is for roommates who want a fair living situation without the headache of manual math. It's for people who want to be objective about space.

Roommate

Settling the monthly bills without the 'it feels unfair' arguments.

Property Manager

Quickly generating fair lease terms for multi-room units.

Real Estate Agent

Showing clients how rent might be split in a shared living space.

What Changes When You Connect

01 Eliminate roommate disputes by using objective math to determine rent.

02 Avoid rounding errors with compute_rent_distribution for precise dollar amounts.

03 Prove your point with calculate_size_ratio to show exactly how much bigger a room is.

04 Prevent calculation mistakes by using validate_split_parameters to check your data first.

05 Save time on manual math when setting up new roommate agreements.

Real-World Applications

Splitting rent for a 3-bedroom apartment

A group of three friends is moving into a 3-bedroom apartment and wants to split the $3,000 rent fairly based on room size.

Verifying if a master suite price is fair

A roommate wants to know if the $200 extra they pay for the bigger room is actually fair compared to the actual square footage.

Generating data-backed lease terms

A landlord needs to provide a clear, data-backed rent breakdown for a shared house to ensure all tenants are happy.

Comparing studio sizes

Someone is moving into a studio and wants to see how much extra space they are getting compared to a standard unit.

Patterns to Avoid

Guessing rent split based on vibes

✗ AVOID

Trying to decide who pays more based on who has the better view or a nicer couch.

✓ INSTEAD

Use compute_rent_distribution to get a result based on actual square footage.

Entering invalid room measurements

✗ AVOID

Inputting a negative number or zero for a room's square footage.

✓ INSTEAD

Run validate_split_parameters first to make sure your data is clean before running the math.

Manual rounding errors

✗ AVOID

Dividing rent by the number of people and then rounding the cents manually for each person.

✓ INSTEAD

Use compute_rent_distribution to get exact dollar amounts that add up perfectly to your total rent.

The Right Fit

Use this if you need to split rent based on physical space. It's perfect for roommates who want to be fair and objective. Don't use it if your rent split is based on other factors like parking spots, proximity to the kitchen, or who has the better furniture. In those cases, you'd need a custom weighted calculation tool instead of a square-footage-specific one.

Square Footage Rent Comparer for Fair Roommate Rent Splits

Most roommates try to split rent by just dividing the total by the number of people. This leads to arguments when one person has a massive master suite and another has a tiny closet. You end up spending hours arguing over fairness or trying to do manual math on a piece of paper that nobody trusts.

With this MCP, you just tell your agent the total rent and the size of each room. It handles the proportions instantly and gives you a precise breakdown. You get a clear, objective agreement that everyone can agree on.

Square Footage Rent Comparer for Accurate Property Lease Math

Property managers and landlords often have to explain why certain rooms cost more. Manually calculating these ratios across different units can be tedious and prone to simple arithmetic errors that frustrate tenants.

This tool automates the math for you. You can quickly verify ratios and distribution amounts to ensure every lease is consistent and accurate. It takes the headache out of property math.

Square Footage Rent Comparer: 3 Tools for Rent Math

Calculate exact rent splits, compare room sizes, and validate your data for fair roommate agreements.

#	TOOL	DESCRIPTION
01	`calculate_size_ratio`	This tool answers how many times larger one room is compared to another. It helps you justify the price difference between spaces in a shared home.
02	`compute_rent_distribution`	This tool determines the exact amount of rent each roommate should pay. It uses the total rent and area values to create a precise, fair split.
03	`validate_split_parameters`	This tool verifies that your provided rent and area values are usable for a fair calculation. It prevents errors like negative numbers or zero square footage from breaking your math.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U My total rent is $3,000 and I have three rooms: 200 sqft, 150 sqft, and 100 sqft. How should we split it?

Based on the square footage provided, here is the fair rent distribution:

ROOM SIZE	% OF TOTAL	MONTHLY RENT
200 sqft	44.4%	**$1,333.33**
150 sqft	33.3%	**$1,000.00**
100 sqft	22.2%	**$666.67**

Total: $3,000.00

U Is a 400 sqft room twice as big as a 200 sqft room?

Yes, the 400 sqft room is exactly 2 times larger than the 200 sqft room.

U Check if these numbers are okay: $2000 rent, Room A 100sqft, Room B 0sqft.

The input is invalid. The area for Room B must be a positive number.

Frequently Asked Questions

01 **How does the Square Footage Rent Comparer help my roommates?**

It calculates exactly how much each person should pay based on the size of their room. This removes the guesswork and helps prevent arguments about fairness.

02 **Can I use Square Footage Rent Comparer for a shared house?**

Yes, you can use it for any number of rooms in a shared house or apartment to get a proportional rent split.

03 **What happens if my room size is zero in Square Footage Rent Comparer?**

The tool will flag that as an invalid input. You need to provide a positive square footage for every room to get a fair calculation.

04 **Will Square Footage Rent Comparer give me exact dollar amounts?**

Yes, it calculates the specific dollar amounts for each person so that the total adds up correctly to your monthly rent.

05 **Can I use Square Footage Rent Comparer to compare two different apartments?**

You can use it to see the size ratio between two different rooms, which helps you compare the value of different living spaces.

06 **How do I ensure the rent split is fair with Square Footage Rent Comparer?**

By using the tool, you're using a mathematical ratio of the total area. This ensures that the person with more square footage pays a proportionally higher amount.

07 **How does the rent split calculation work?**

The tool calculates the total square footage of both rooms, determines Room A's proportion of that total, and multiplies it by the monthly rent. To ensure accuracy, Room B's portion is calculated as the remaining balance.

08 **Can I use this for more than two rooms?**

Currently, this tool is specifically designed to compare and split rent between two specific rooms.

09 What happens if I enter zero or negative values?

The `validate_split_parameters` tool will identify the error, as all inputs must be positive and non-zero for a valid calculation.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"square-footage-rent-comparer": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

Square Footage Rent Comparer is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

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DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

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