

Position arithmetic on a fractional asset

FRACTIONAL POSITION VALUE

Coins held times price - the notional - with coins divisible to many decimal places, so there is no whole-unit floor at all: the computed size is the held size, exactly, always. The simplest sizing arithmetic on the platform, feeding the highest volatility on it - which makes skipping the pre-trade calculation both easiest here and most expensive.

Equities reached the one-unit case; crypto removes the unit entirely. Coins divide to eight decimal places or more, so the sizing division has no remainder - and the arithmetic could not be simpler, which is exactly the trap.

The arithmetic, floorless

Coins times price is the position: £20,000 into a £40,000 coin buys 0.5 coins, and a £400 move on that position is £200 - plain multiplication, plain division, no rounding step because none is needed. The risk-based size from the platform's standard division comes out to whatever decimal it comes out to, and the account holds exactly that. The whole-contract chunkiness of futures and the whole-unit floor of shares are both simply gone.

Why the simplicity is dangerous here

No friction forces the calculation: no spec to read, no contract to size, no floor to notice - nothing about the trade makes a trader compute the notional, so the habit lapses exactly where volatility punishes the lapse hardest. The volatility is the highest on the platform: a coin moving 20% in a session - module 4's opening fact - turns an unsized position into a portfolio event; the notional the trader never computed is the loss they never bounded. The denominations confuse the base: a position sized in stablecoins, valued in fiat, against a coin - three units in one trade; the arithmetic is trivial only once the base currency is fixed, per lesson 6.

The self-imposed habit

The tool below sizes crypto positions from account risk and the stop; use it until coins-times-price and risk-over-stop-distance are reflexes. The platform's sizing discipline has been self-imposed since the equity track - nothing forces it - but crypto raises the stakes: the easiest arithmetic on the platform guards the most violent asset on it, and module 4 builds every risk lesson on the number this one computes. The volatility that makes crypto attractive is exactly what makes the unsized position ruinous.

Try it yourself with the position-size-crypto calculator: <https://ticksprout.com/tools/position-size-crypto>

Check your understanding

1. How does crypto sizing differ from equity sizing?

- a. It uses a different formula
- b. It removes the last floor: coins divide to many decimals, so the computed size is held exactly - no rounding at all, where shares still had whole units
- c. It requires whole coins

Answer: b. Equities reached one unit; crypto removes the unit. The division has no remainder - the simplest arithmetic on the platform, feeding the most violent asset.

2. Why is crypto's sizing simplicity specifically dangerous?

- a. The formula is easy to misremember
- b. Nothing forces the calculation - no spec, no floor - so the habit lapses exactly where 20%-session volatility punishes an unsized position hardest
- c. Fractional coins carry higher fees

Answer: b. Easiest to skip, most expensive to skip. The notional never computed is the loss never bounded - and module 4's every lesson builds on the number this one insists you compute.