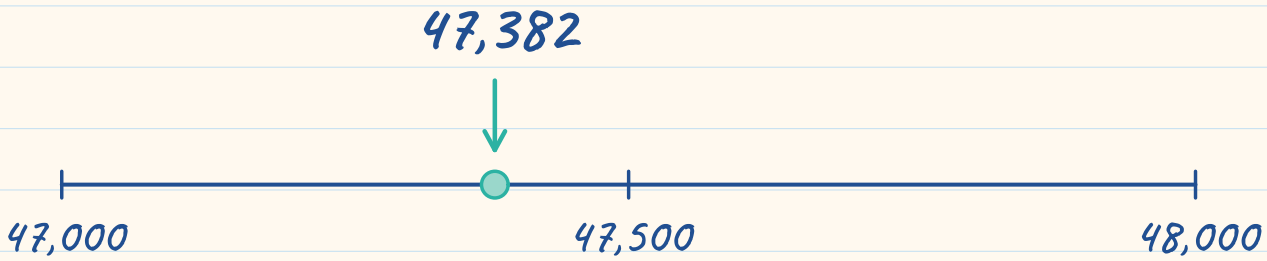
Rounding and sensible estimates

Number · VC2M4N07

Choose nearby friendly numbers to estimate; rounding depends on the place asked for.



Below halfway: nearest 1,000 is 47,000.

☆ Choose the rounding place

Look at the digit just to the right: 0–4 down; 5–9 up.

For whole-number rounding, zero the smaller places.

47,382 → 47,380 (nearest 10); 47,400 (nearest 100).

☆ Decimals, whole numbers and money

Nearest tenth: 12.27 → 12.3; carry: 9.96 → 10.0.

Nearest whole number: 12.76 → 13.

Nearest $10: $28.04 → $30.00.

☆ Estimate with friendly numbers

198 + 307 is about 200 + 300 = 500.

602 − 198 is about 400; 39 × 21 is about 40 × 20 = 800.

574 ÷ 5 is about 575 ÷ 5 = 115: a friendly multiple.

☆ Use bounds to check a budget

6 items at $4.70 cost between 6 × $4 and 6 × $5.

$24 < $28.20 < $30: the exact cost is sensible.

Budget $30: rounding prices up helps allow enough money.

Remember...

For positive sums/products, rounding both up gives a high estimate.

A close estimate helps check an answer; it does not prove it.