

Name: _____

Date: _____

Two situations - write both equations, set equal to find the break-even point. Last two are challenge problems!

- 1.** Plan A: \$30 flat. Plan B: \$10 + \$2 per GB. Write both equations.

show your work

- 2.** Same plans: when do they cost the same?

show your work

- 3.** Gym A: \$50 join + \$20/mo. Gym B: \$30/mo. Equations?

show your work

- 4.** Same gyms: break-even month?

show your work

5. After break-even, which gym is cheaper? Why?

show your work

6. Printer A: $\$120 + \$0.05/\text{page}$.
Printer B: $\$60 + \$0.10/\text{page}$.
Break-even pages?

show your work

7. Job A pays $\$400/\text{wk}$ flat. Job B pays $\$250 + \15 per sale. Sales to match A?

show your work

8. Two candles: A is 10 in burning 1 in/hr; B is 8 in burning 0.5 in/hr. When are they equal?

show your work

9. Car rental: A charges \$40 + \$0.25/mi; B charges \$65 flat. For a 120-mile day, which is cheaper and by how much? ★ CHALLENGE

show your work

10. Tutoring: A charges \$22/hr. B charges a \$36 registration + \$16/hr. For how many hours is A the better deal? ★ CHALLENGE

show your work