sides of the equation.

## **Direction**:

So, you've never been a member of a gym before, but maybe you'd be more inspired to work out, especially in the winter, if you actually joined a gym. It looks pretty nice, sauna, bodybuilding, and aerobics.

# The question is!!!

### How much would it costs to join?

#### There are two plans at the gym.

Plan 1: \$1 enrollment, plus \$39.95 a month.	<b>Plan 2:</b> a \$99 enrollment fee, plus \$29.95 a month.

You job is to use what you have learned about solving equations with variables on both sides to find the best plan.

✓ **Task:** The best plan depends on how long you're going to join for.

- You can use algebra to compare the plans.
- Solve the equation and answer the questions below.
- Find the numbers of months where the cost of the two plans are equal

Plan 1 written algebraically	Plan 2 written algebraically
1. The first special plan, plan one, cost \$1	1. The second special plan, plan two,
to join and \$39.95 for each month after	costs \$99 to join and \$29.95 for each
that.	month after that.
	Algebraically:
Algebraically:	99 + 29.95m.
1 + 39.95m.	

# Question:

- 1. If you joined for one month, how much would plan 1 and plan 2 cost you?
- 2. How much would it cost over a longer period of time?
- 3. How do we find the number of months where the cost of the two plans is equal?