

# On The Download

## Instructions

The mePhone and mePhone2 don't work alone. You have to subscribe to a cell phone plan to use them. Here are details on the calling plans you can choose from:

### Pay As you Go:

\$0.15 per minute, no flat rate

### 9-90-90 Plan:

\$9 per month gets you 90 minutes. For talk over 90 minutes, you pay \$0.90 per minute.

- Which plan is better? Well, it depends on how much you use your phone to make calls. Use a table graph, and/or equation explain which plan is better for each person:
  - Talkative Ted who talks for 520 minutes or more each month. **Answer: Pay As you Go**  

Pay As you Go:	9-90-90 Plan:
$520 \times 0.15 = \$78$	$(520 - 90) \times (.90) + 9 = \$396$
  - Taciturn Tina who only talks for 15 minutes per month. **Answer: Pay As you Go**  

Pay As you Go:	9-90-90 Plan:
$15 \times 0.15 = \$2.25$	\$ 9
  - Typical Terrance who talks for 80 minutes per month. **Answer: 9-9-90**  

Pay As you Go:	9-90-90 Plan:
$80 \times 0.15 = \$12.00$	\$ 9
- Write an equation showing how much you will pay for each plan if you talk for  $m$  minutes each month. (Hint: you will need two "rules" to describe how the 9-90-90 plan works—one for the part less than or equal to 90 minutes and one for the part over 90 minutes.)

Pay as you go: total bill =  $0.15 m$

9-90-90: total bill = \$9 if  $m \leq 90$  and  $9 + 0.90 \times (m - 90)$  if  $m > 90$