Name _____ Date _____

Comparing Phone Plans: Which Costs Less Over a Year?

Directions: Read the two phone plans in the table, then calculate what each plan would cost Mateo under the conditions each question describes. Leave the dollar sign off your number answers.

Mateo's Two Phone Plans

Two cell phone plans that Mateo is comparing, with prices that leave out taxes and other surcharges because those vary by location. Mateo already owns a phone that works on either plan, and GB stands for gigabytes of data.

Plan detail	Plan A	Plan B
Price each month (dollars)	50	30
Data included each month	Unlimited	5 GB
Charge for each extra GB beyond the included data (dollars)	None	8
One-time activation fee (dollars)	20	35
Talking and texting	Unlimited	Unlimited

1. With Mateo using 9 GB of data every month, how much would Plan B charge him each month for the extra data?

_____ dollars

2. If Mateo uses 9 GB a month, what would his regular Plan B bill come to each month, not counting taxes or the one-time activation fee?

_____ dollars

3. Phone companies use these terms when they describe their plans, so match each term with its meaning.

Write the letter of the matching answer on each line.

1. _____ Activation fee
2. _____ Data allowance
3. _____ Overage charge
4. _____ Monthly price

Choices for question 3

A. The fixed amount charged every month before any additional charges

B. A refund for data remaining unused at the end of a month

C. A one-time charge for starting service on a new plan

D. An extra fee for going past the data a plan includes

E. The amount of data a plan covers each month before additional charges begin

4. Over 12 months, how much would Plan A cost Mateo altogether, including its one-time activation fee?

_____ dollars

5. What would 12 months of Plan B cost Mateo altogether at 9 GB a month, including its activation fee?

_____ dollars

6. At 9 GB of data a month, which plan costs Mateo less over 12 months, including activation fees, and by how much?

A. Plan A, by $12 B. Plan B, by $240 C. Plan A, by $159 D. Plan A, by $144

7. Suppose Mateo used only 5 GB every month instead; over 12 months, including both activation fees, how much less would Plan B cost than Plan A?

_____ dollars

8. Since Plan A costs Mateo less over a year at 9 GB a month while Plan B costs him less at 5 GB a month, which idea do these two results demonstrate?

A. The plan with unlimited data always costs less over a whole year.

B. A lower monthly price can cost more over a year once additional charges are included.

C. The plan with the lower monthly price always costs less over a whole year.

D. Activation fees determine which plan costs less.