

Which Cell Phone Plan is Right for YOU?

Name Key _____ Class Period _____

Three customers are looking at cell phone plans:

Customer 1: Linda, a retired math teacher, keeps her phone in the car to call people for emergency use only. Historically, she uses the phone less than 50 minutes each month.

Customer 2: Keisha, a college student, attends school out of state. She uses her phone to get on the internet, text message, and call friends and family at home to keep in touch. She uses about 900 minutes each month.

Customer 3: Joseph, a traveling salesman, is gone three to four nights a week. He contacts customers, his home office and family, checks his email and gets on the internet when he is away. He uses about 1,500 minutes each month.

Three cell phone plans are available for these customers.

Plan A: \$30 for data/internet and unlimited texting plus \$.15 for each additional minute

Plan B: \$40 for data/internet and unlimited texting plus \$.10 for each additional minute

Plan C: \$.15 for each minute with no data and text message capabilities

Create a table, graph and equation for each plan. Determine which plan is the best for each customer. Justify your selection.

Plan A

Number of Minutes	Cost
0	30
100	45
200	60
300	75
400	90
500	105
600	120
700	135
800	150
900	165
1000	180
1100	195
1200	210
1300	225
1400	240
1500	255
1600	270

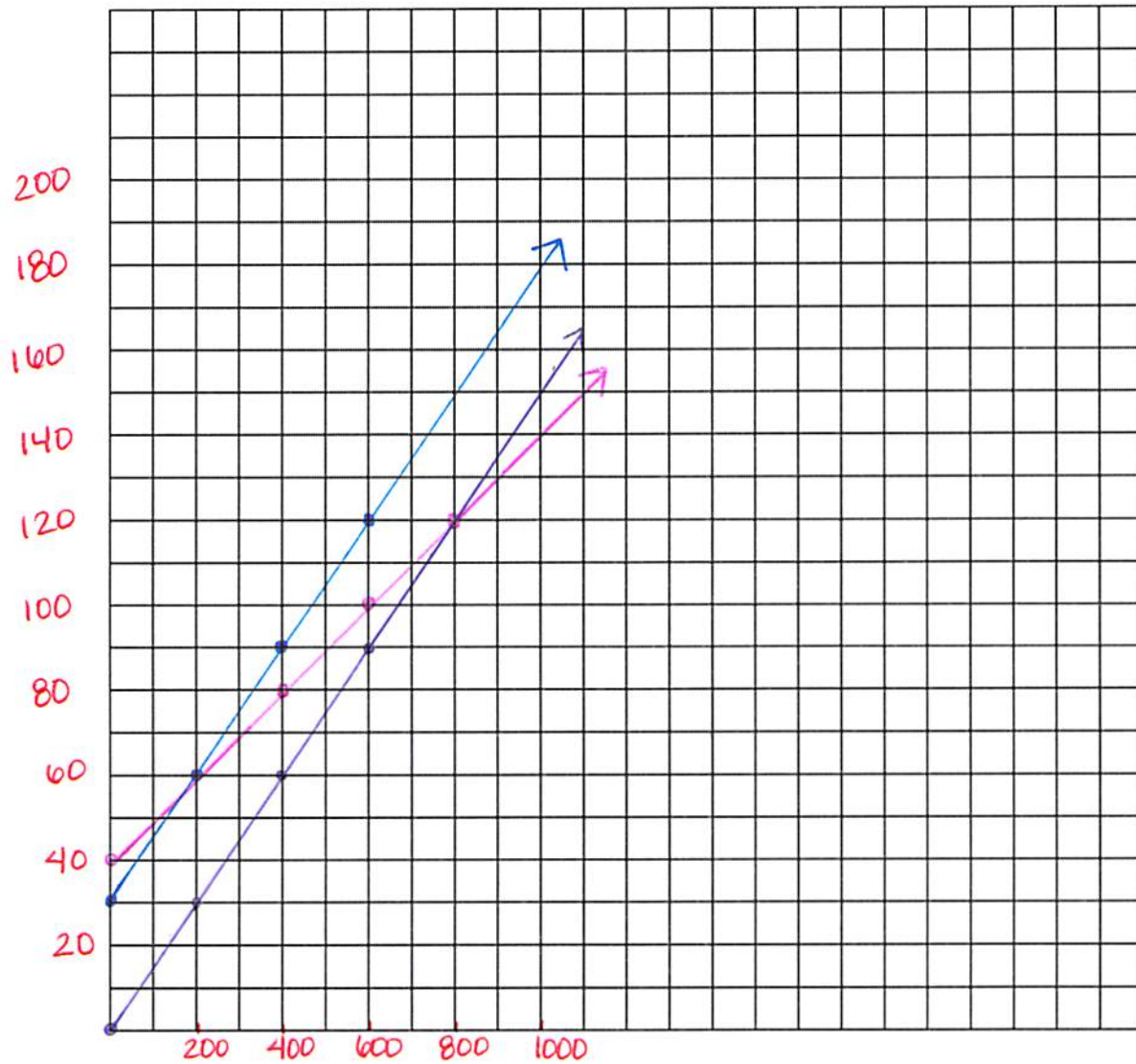
Plan B

Number of Minutes	Cost
0	40
100	50
200	60
300	70
400	80
500	90
600	100
700	110
800	120
900	130
1000	140
1100	150
1200	160
1300	170
1400	180
1500	190
1600	200

Plan C

Number of Minutes	Cost
0	0
100	15
200	30
300	45
400	60
500	75
600	90
700	105
800	120
900	135
1000	150
1100	165
1200	180
1300	195
1400	210
1500	225
1600	240

Plot the points for each plan using a different color marker or pencil.



Write an equation for each plan.

Plan A: $y = 0.15x + 30$

Plan B: $y = 0.10x + 40$

Plan C: $y = 0.15x$

Determine which plan is the best for each customer. Justify your selections.

Linda - Plan C as she does not need data

Keisha - Plan B as it is cheaper for a 900 min. average

Joseph - Plan B as it is cheaper for a 1500 min. average