

Name: **ANSWERS!**

Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

Mega Movies sells movie downloads for a flat fee of \$17.00 per month.

$$y = 17$$

Favorite Films sells movie downloads for \$1.50 per movie and a monthly charge of \$5.00.

$$y = 1.5x + 5$$

Complete the Table

Number of Downloads	Cost (\$) with Mega Movies	Cost (\$) with Favorite Films
0	17	5.00
1	17	6.50
2	17	8.00
3	17	9.50
4	17	11.00
5	17	12.50
6	17	14.00
7	17	15.50
8	17	17.00
9	17	18.50
10	17	20.00

Part 1. When will the two cost the same?

Movies: 8

Dollars: 17

Part 2. If you download 5 movies per month, which service should you choose?

Favorite Films!

Part 3. If you download 10 movies per month, which service should you choose?

Mega Movies!

Question 02

Talkative Text sells texting services for a flat fee of \$15 per month.

$$y = 15$$

Tons-of-Texts sells texting services for \$0.05 per text and a monthly charge of \$3.00.

$$y = 0.05x + 3$$

Part 1. When will the two cost the same?

Texts: 240 Dollars: \$ 15

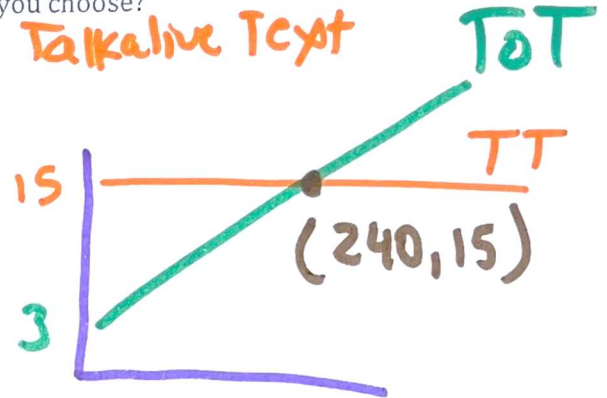
Part 2. If you text 200 times per month, which service should you choose?

Tons of Texts

Part 3. If you text 500 times per month, which service should you choose?

Talkative Text

Part 4. Sketch a graph of the two fee structures:



$$15 = 0.05x + 3$$

$$\begin{matrix} -3 & -3 \end{matrix}$$

$$12 = 0.05x$$

$$\div 0.05 \quad \div 0.05$$

$$x = 240$$

Question 03

Super Songs sells song downloads for a flat fee of \$18 per month.

$$y = 18$$

Music Mania sells texting services for \$0.10 per song and a monthly charge of \$8.50.

$$y = .1x + 8.5$$

Part 1. When will the two cost the same?

Downloads: 95 Dollars: \$ 18

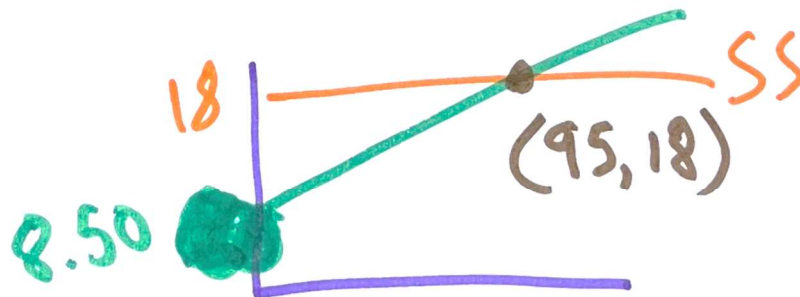
Part 2. If you download 50 songs per month, which service should you choose?

~~Super Songs~~ MM

Part 3. If you download 200 songs per month, which service should you choose?

Super Songs MM

Part 4. Sketch a graph of the two fee structures:



$$18 = 0.1x + 8.5$$

$$\begin{matrix} -8.5 & -8.5 \end{matrix}$$

$$9.5 = 0.1x$$

$$\div 0.1 \quad \div 0.1$$

$$x = 95$$