1.) In preparation for the Prom, students are researching the costs of two local DJ companies. Music Makers charges a fee of \$200 and an additional \$ 175per hour. Dance Partners does not charge an initial fee, but charges \$225 per hour. Which company would be more cost effective for the prom committee? Write a mathematical argument to support your decision.

Music Makers: \$200 & \$175 per hour

2 hours = \$550

3 nours = \$ 750

4 hours = \$900

6 hours = \$1,250

8 hours = \$1,600

Dance Partners: \$ 225 per hour

2 hours = \$1450

3 hours = \$675

4hours = \$900

6hours = \$1,350

8hours = \$1,800

Depending on how many hours you would have the oil for would effect your decision. If you were to have the dij for only 2-3 hours, Dance Partners would be the cheaper choice; yet if you wanted the dij for I thours, music makers would be the best choice.

May 2015

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ONOW

An overage prom lasts 4 hours. Assuming the prom would last between land 4 hours, a chart comparing the cost of each DJ companies with the length of the promis made below

	Music Makers	Dance Parthers
1 hour	¥375	\$225
2 hour	\$550	# 450
3 hour	<b>\$</b> 725	\$ 675
4 hour	JS 900	# 600

Answer = If the prom was 4 hours long, reather both DJ companies would cost the same However, anytime its than 4 hours would result in Dance Partners being the most cost effective, as they are cheaper each hour.

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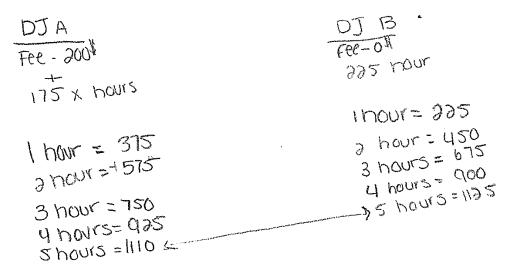
MUSIC Marers-18200 + \$ 175 per nour.

Dance partners-18225 per nour.

	MM ]	DP
)	375	225
2	550	450
3	725	675
Ч	900	900

It depends now long prom will last to see which p) is the most cost effective. From one nour to three nours, donce partners would be cheaper. But If prom nows four nours, they would cost the same amount. And, if prom was more than 4 hours, Music Makers would be cheaper.

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Donce partners is most effective because after 3 hours of DJ the cost was any 615.00% unlike out.

Cost was any 615.00% unlike out.

Music makers who charged 150.00%.

Music makers allulates cast more the music makers allulates and pance partners

Cost was live.ook

1.) In preparation for the Prom, students are researching the costs of two local DJ companies. Music Makers charges a fee of \$200 and an additional \$ 175per hour. Dance Partners does not charge an initial fee, but charges \$225 per hour. Which company would be more cost effective for the prom committee? Write a mathematical argument to support your decision.

Even though Music Makers starts with a higher fee tecause they do \$200 plus \$175 per hour, Dance Partners will eventually be more expensive because they have a beggir horry rate. Direce Ozertrars is \$50 more per hour Sort takes 4 hours to cotch pand 50 + 50 + 50 + 50 = 6 40. make up the initial fee. at 4 hrs, they are the same. after that, mm is less tecause the horry nateis less. 4 ho- either one 24ho- Pance Pertner >4ha - Music Mekers

1.) In preparation for the Prom, students are researching the costs of two local DJ companies. Music Makers charges a fee of \$200 and an additional \$175per hour. Dance Partners does not charge an initial fee, but charges \$225 per hour. Which company would be more cost effective for the prom committee? Write a mathematical argument to support your decision.

350 Both music companys would charge you the some

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$$x=5$$
 200 + 175  $x = 1075$   
225  $x = 1125$ 

I think that Dance partners D; company would be more cost effective. I think this because No matter the amount of hours(x) it will still cost more than Misic Makers.

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$$200 + 175x = C$$

$$200 + 175x = 225$$

$$225x = C$$

$$200 + 175x = 225$$

$$\frac{200 - 50x}{50}$$

$$\frac{200 - 50x}{4 = x}$$

$$200 + 175(5) = 1075$$

Music Makers 15 more cost
effective if from is longer than
4 hours. I know this because
the 2 DJs cost the same amount
for 4 hours and Music makers cost
less when the fith hour hit, but
Dance Partners cost less if from is less
than 4 hours.

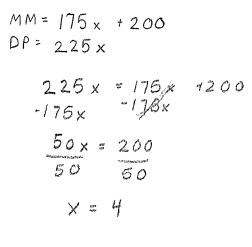
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music makers: 175x +200

Dance partners: 225x

Answer: Music Makers will be more cost
effective if If you rent this
company for over 4 hours. But
if your rentires the group for
only four hours, the both will
be good because they both
cost \$1900 at 4 hours. But if
you rent it for less than 4
hours, Dance Partners would be
better.

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1,300 1,200 1,100 1,000				
123456789				
nours				

	and the second section of the second section of the second second second section of the second secon	SALES OF THE PARTY	
	MM	OP	
0	200	0	
1	375	225	
2	550	450	
3	725	675	
4	900	900	
5	1075	1125	
6	1250	1350	
A SOLD STREET, STREET, AND THE PROPERTY OF THE			

If the prom will last
less than 4 hours they
should go with Dance
Partners if it will last
more than 4 hours they
should go with music
makers, if it will last
exactly 4 hours it will not
matter because it will be
the same price