Susie is organizing the printing of tickets for a show her friends are producing. She has collected prices from several printers and these two seem to be the best.

**SURE PRINT** 

Ticket printing 25 tickets for \$2

BEST PRINT

Tickets printed \$10 setting up plus \$1 for 25 tickets

Susie wants to go for the best buy

She doesn't yet know how many people are going to come.

Show Susie a couple of ways in which she could make the right decision, whatever the number.

Illustrate your advice with a couple of examples.

Best Print sure Print

$$\frac{2\left(\frac{x}{25}\right)}{25} > 10 + \frac{x}{25} \qquad 10 + \frac{x}{25} > 2\left(\frac{x}{25}\right)$$

$$\frac{2x}{25} > 10 + \frac{x}{25} \qquad 10 + \frac{x}{25} > \frac{2x}{25}$$

$$\frac{x}{25} > 10 \qquad 10 > \frac{x}{25}$$

$$\frac{x}{25} > 10 \qquad 10 > \frac{x}{25}$$
Best Print will be the best Sure Print will be the pest buy for more than 250. buy for less than 250 tickets

+ ickets. tickets

Best Buy Tickets (continued)  Ex. 249 tickets	Ex. 25   tickets	
Best Print ( Sube Print	Best Print Sure Print	
$10 + \frac{249}{25} = \chi  \chi = 2\left(\frac{249}{25}\right)$	$10+\frac{25!}{25}=\nu \qquad \chi=2\left(\frac{25!}{25}\right)$	
x=\$19.96 \x=919.92	x=\$20.04 x=\$20.08	_
\$19.96 > \$ 19.92	\$20.04 < \$20.08	
Sure Print is the better buy.	Best Print is the better buy.	
<b>J</b>		

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For the sure print, It costs 0.08 cents per person

The Best Print cost 0.04 cents per person,

plus a 10 dollar set up fee. assume the

humber of people as X, when the printing

cost for both printers are the same, it

dosent matter what one to buy. Sowhen 0.08x=

0.04x+10, I dosent matter where you buy

Best Buy Tickets (continued)

the tickets. 0.04 x = 10, x = 250, If there are

250 people buying, It dosent matter which

Printer you use. If there are less than 250 people buying,

It is better to buy from sure print, If there

are more 250 people buying, it is better to

buy from Best Print

$$0.08 \times = 0.04 \times + 10$$

$$0.04 \times = 10$$

$$\times = 250$$

004)1000

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The nost of sure prints is represented by  $2(\frac{1}{25})$ . Best print is  $10+\frac{1}{25}$ .

for sureprint to cost less than best print,  $(2)\frac{1}{25} < 10+\frac{1}{25} = 2\times 250+\times$   $\times < 250$ . So if the # of people is less than 250, use sure print.

For Best Print to be the best choice,  $10+\frac{1}{25} < 2\frac{1}{25} = 250+\times 2\times 2\times = 250\times$   $\times > 250$ . So # of people must be over 250 in order for Best print to be chequer than sure print. So if less than 250 people go, use

Sure Print, if more than 250 people grow, use Best trivit.

# Best Buy Tickets (continued)

Since you don't know how many will go, ask for the number of people who went last year. Use that number and odd some if you want. Or, you can just buy however many tickets according to the # of seads.

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Ticket printing 25 tickets for \$2

2

**BEST PRINT** 

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She doesn't yet know how many people are going to come.

Show Susie a couple of ways in which she could make the right decision, whatever the number.

Illustrate your advice with a couple of examples.

Best Mint Suremint	
Best Mint Sure Mint $10+25 > 2(25) \rightarrow 10+25>250 + 250$	
If the number of people going is less than 250, than sure print has the	better
deal, if more than 250 people are going, than it's better to use best p	
Ex. 2:25 people going Sure print: 225:25=9 9.2= \$18	both cost
best print: 10 + (225÷25) = 10 +9 = \$19	the same
Sure Print is cheaper	
Ex 250 people going to show sure print: 250 = 25 = 10 10.2 = 120	

best print (10)+(275-25)=\$21	est Buy Tickets (contin	best print (10)+(250+25)=\$20	
best print: (10)+(275=25) =\$21	Both cost the same		
	: 275 people going	sure print 275-25=11 11.2=\$22	
Roct Dint you has the botter deal		best print (10)+(275=25)=\$21	
DOST THAT TON TOST TO RETER SECTION		Best Print now has the better deal	

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Sure Print					
# of tickets	\$ Surprimt	Best Print & Unless you			
25	2	11 are boying			
50	4	12 250 lickets or			
75	6	13 more sure Print			
160	8	14 is cheaper.			
175	10	15			

# Best Buy Tickets (continued)

才	of tickets	\$ Sure P.	Bost Frink &	
	175	14	17	-
	200	19	18	
	225	કિ	19	
	250	70	20	Seme
	275	22	21	L'est Print cheaper