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

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

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

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

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

+ ickets.

Best Buy Tickets (continued)  Ex. 249 tickets	Ex. 25   tickets		
Best Print ( Sure Print	Best Print	Sure Print	
$10 + \frac{249}{25} = \chi  \chi = 2\left(\frac{249}{25}\right)$	$10+\frac{25!}{25}=\gamma$	$\chi = 2\left(\frac{251}{25}\right)$	
x=\$19.96 x=\$19.92	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.		

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For the sure print, It costs 0.08 cents per person

The Best Print cost 0.104 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

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

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

$$0.04 \times = 10$$

$$0.04 \times = 10$$

004)1000

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SURE PRINT
Ticket printing
25 tickets for \$2

#### **BEST PRINT**

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The root of sure prints is represented by  $2(\frac{2}{5})$ . Best print is  $10+\frac{2}{5}$ .

For sureprint to cost less than best print,  $(2)\frac{2}{5} < 10+\frac{2}{5} = 2\times 250+\times$   $\times 250^{\circ}$ . So if the #of people is less than 250, use sure print.

For Best Print to be the best choice,  $10+\frac{2}{5} < 2\frac{2}{5} = 250+\times 2\times = 250\times$   $\times 250^{\circ}$ . So #of people must be over  $250^{\circ}$ n order for Best print to 2

be chapter than sure print. So if less than  $250^{\circ}$  people go, use  $\sqrt{250^{\circ}}$ . Sure Print, if more than  $250^{\circ}$  people open, use Best Print.

### 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 seats.

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

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  $10+\frac{25}{25}>2(\frac{25}{25}) \rightarrow 10+\frac{25}{25}>\frac{25}{25} \rightarrow 250+x>2 \rightarrow 250>x \rightarrow x(250)$ 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 print;  $\frac{1}{250} = \frac{1}{250} = \frac{1}{250}$ 

Best Buy Tickets (continued)				
	best print (10)+(250+25)=\$20			
	Both cost the same			
Ex: 275 people going	Sure print: 275-25=11 11.2=\$22			
	best print: (10)+(275+25)=\$21			
	Best Print now has the better deal			

## **Best Buy Tickets**

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> SURE PRINT Ticket printing

> 25 tickets for \$2

BEST PRINT

Tickets printed
\$10 setting up
plus

17

\$1 for 25 tickets

Susie wants to go for the best buy 🚣

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Sure Print	na k	ŧ		2.
# of tickets	\$ Surprint	Best Print 8	unless you	
25	2	11	are buying	5
50	4 /	12	250 fickets or u	- 1
75	6	13	more sure Print	
100	8	14	is cheaper v	, '
175	10	15	·	4

# Best Buy Tickets (continued)

4	of tickets	\$ Sure P.	Bost Print &	
	175	14	17	-/
	200	16	18	
	225	18	19	
	250	20	20	Seme /
	275	22	21	Best Print cheaper