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

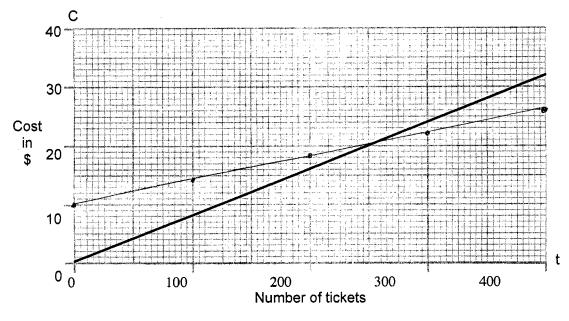
Tickets printed \$10 setting up plus \$1 for 25 tickets

1. Using C for the cost of the printing and t for the number of tickets, Susie writes a formula for each of the printers. Here is her formula for *Sure Print*:

$$C = \frac{2t}{25}$$

Write the formula for Best Print:

$$C = 10 + \frac{1t}{25}$$



$$c = 250$$
 $t = 250$

Show how Susie may have calculated C and t.

$$25(\frac{2t}{25})=(10+\frac{t}{25})^{25}$$

$$2t=250+t$$

$$t=250$$

$$(=2(\frac{250}{25})=\frac{500}{25}=\frac{100}{25}$$

4. What do Rob's graphs and Susie's calculations tell us about the cost of the tickets? Which company should Susie choose under what circumstances?

For sure Prints, the price is cheaper at first but eventually gets higher than the Best Prints Stude should choose sure trims if she wants fewer amounts of tickets, and choose Best Frint if she needs a great amount of tickets.

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

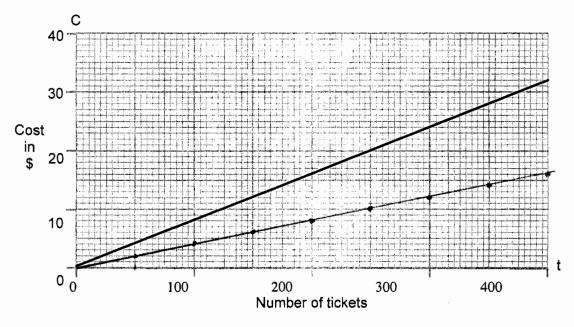
Tickets printed \$10 setting up plus \$1 for 25 tickets

1. Using C for the cost of the printing and t for the number of tickets, Susie writes a formula for each of the printers. Here is her formula for *Sure Print*:

$$C = \underline{2t}$$

Write the formula for Best Print:

$$C = \frac{1}{25}$$



$$c = 20$$
 $t = 250$

Show how Susie may have calculated C and t.

$$2(25x) = 25x + 10$$

$$50x = 25x + 10$$

$$56x = 10$$

$$25$$

$$x = .4$$

$$2(25(4)) = 25(4) \cdot 10$$

$$120 = 120$$

$$20 \cdot 10 = 2$$

$$25 \cdot 10 = 250$$

4. What do Rob's graphs and Susie's calculations tell us about the cost of the tickets? Which company should Susie choose under what circumstances?

She s	should choose	Best P	rent it	she 1	Wents	man
Copies	Over 250	tickets)	. But	if sh	e only	<u></u>
Marts	less tha	n 250	tichets	, ther	choo	se_
5W1	2 Print.			_		

She has collected prices from several printers and these two seem to be the best.

SURE PRINT

Ticket printing 25 tickets for \$2

50 ficks

\$4

BEST PRINT

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

1. Using C for the cost of the printing and t for the number of tickets, Susie writes a formula for each of the printers. Here is her formula for Sure Print:

$$C = \frac{2t}{25}$$

ticks

Write the formula for Best Print:

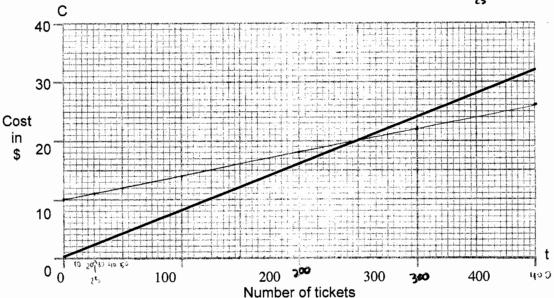
$$C = 10 + \frac{t}{25}$$

$$\frac{100}{25} + 10 = 14$$

$$\frac{300}{25} + 10 = 22$$

$$\frac{200}{25} + 10 = 26$$

$$\frac{400}{25} + 10 = 26$$



$$c = $20$$
 $t = 250$

Show how Susie may have calculated C and t.

Algebra:
$$\frac{2+}{25} = 10 + \frac{t}{25}$$
 Check: $2t = 250 + t$ $\frac{2(250)}{25} = 20$ $10 + \frac{(250)}{25} = 20$

4. What do Rob's graphs and Susie's calculations tell us about the cost of the tickets? Which company should Susie choose under what circumstances?

The graphs and the calculations tell us that the cost of the tickets is cheaper with "Sure Print" when you buy only a few (less than 250 tickets.) The graphs and calculations also fell us that the cost of the tickets is cheaper with "Best Print" when you buy a lot of tickets (more than 250 tickets). To get a cheaper price, Susie should choose "Sure Print" if she only needs to print less than 250 tickets. On the other hand, Susie should choose "Best Print" if she weeds to print more than 250 tickets. Although, if Susie needs to print exactly 250 tickets, she could choose any company.

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

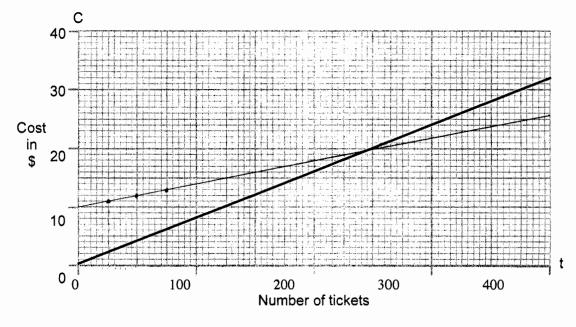
Tickets printed \$10 setting up plus \$1 for 25 tickets

1. Using C for the cost of the printing and t for the number of tickets, Susie writes a formula for each of the printers. Here is her formula for *Sure Print*:

$$C = \underline{2t}$$

Write the formula for Best Print:

$$C = \frac{\cancel{t}}{25} \neq 6$$



3.	Susie uses algebra to find the values of C and	l t when the	cost of printing	g the tickets is	the same
	for both of the printers.				

$$C = 20$$
 $t = 250$

Show how Susie may have calculated C and t.

4. What do Rob's graphs and Susie's calculations tell us about the cost of the tickets? Which company should Susie choose under what circumstances?

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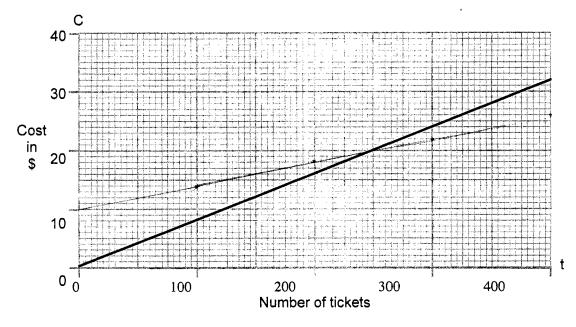
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Write the formula for Best Print:

$$C = 10 + \frac{t}{25}$$



Show how Susie may have calculated C and t.

$$\frac{2t}{25} = 10 + \frac{t}{25}$$

$$\frac{2(250)}{25} = 0$$

$$\frac{10 + (250)}{25} = 0$$

$$\frac{t}{25} = 10 \cdot 25$$

$$\frac{500}{25} = 0$$

$$10 + 10 = 0$$

$$20 = 0$$

4. What do Rob's graphs and Susie's calculations tell us about the cost of the tickets? Which company should Susie choose under what circumstances?

Susie should choose sure print if she has less than 250 tickets to print but if she has more she should choose Best print