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

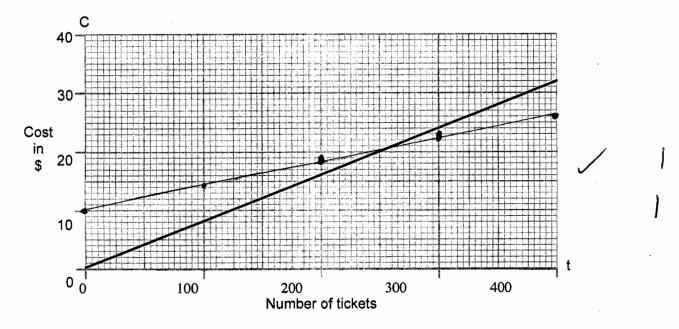
1. Using C for the cost of the printing and t for the number of tickets, Susie writes a formula for each of the printers. Here is her formula for *Sure Print*:

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

Write the formula for Best Print:

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

2. Susie's brother Rob has drawn Sure Print's graph on a grid. Draw the graph for Best Print.



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

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

Show how Susie may have calculated C and t.

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

$$2t=250+t$$

$$t=250$$

$$(=2(\frac{250}{25})=\frac{500}{25}=\frac{420}{25}$$

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?

tror 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 enouse Best Print if she
heeds 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

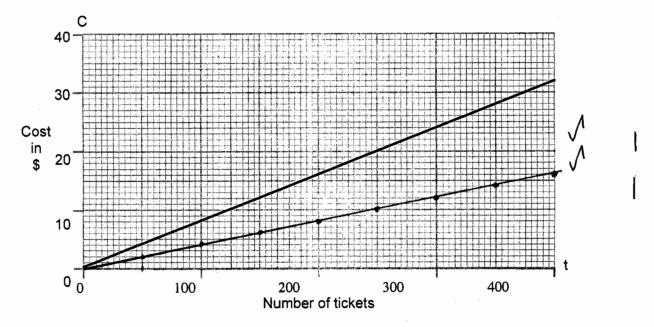
1. Using C for the cost of the printing and t for the number of tickets, Susie writes a formula for each of the printers. Here is her formula for *Sure Print*:

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

Write the formula for Best Print:

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

2. Susie's brother Rob has drawn *Sure Print*'s graph on a grid. Draw the graph for *Best Print*.



(1)

2

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

Show how Susie may have calculated C and t.

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

 $50x = 25x + 10$
 $25x = 10$
 $x = \frac{10}{25}$
 $x = \frac{10}{25}$

$$2(25(4)) = 25(4)+10$$

 $120 = 120$
 $10 \div 10 = 2$
 $15 \cdot 10 = 250$

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 should choose Best Print if she wents ma	<u>n</u> y
copies (over 250 trulets). But if she only	/
wants less than 250 tickets, then choose	/
Sure Print.	_



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



Ticket printing 25 tickets for \$2

50 ticks

BEST PRINT

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

ticks

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:

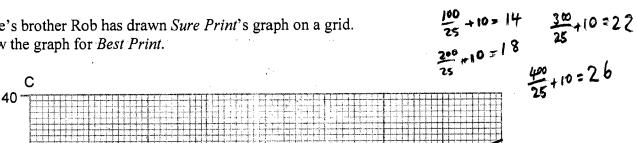
$$C = \frac{2t}{25}$$

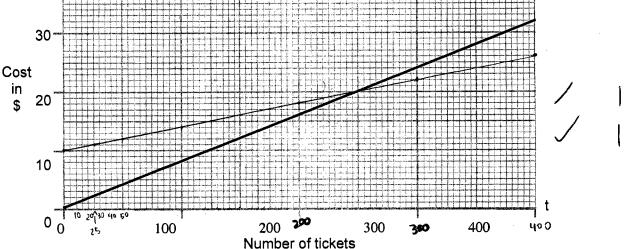
Write the formula for Best Print:

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



2. Susie's brother Rob has drawn Sure Print's graph on a grid. Draw the graph for Best Print.





Page 4

2

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

$$c = \frac{$20}{t} = \frac{250}{}$$

Show how Susie may have calculated C and t.

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

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 tell 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 needs 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*:

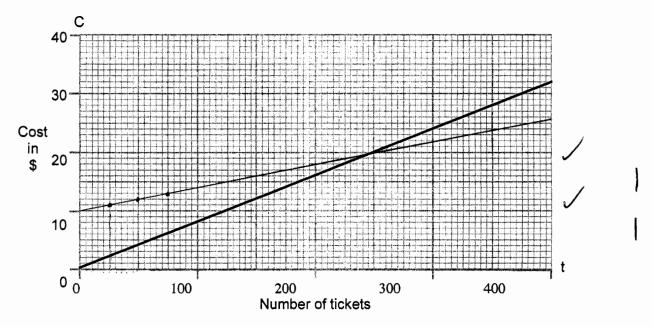
$$C = \frac{2t}{25}$$

Write the formula for Best Print:

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

2

2. Susie's brother Rob has drawn *Sure Print*'s graph on a grid. Draw the graph for *Best Print*.



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

$$C = 20 \qquad t = 250$$

Show how Susie may have calculated C and t.

Λ

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?

That Best print cost more at first but less if you order more
than 250 lickets.

If Susie wants less than 250 tickets, she should choose "sure print".

If more than 250 tickets, chase "Best print".

If she wants exactly 250 lickets, both costs are the same

2

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

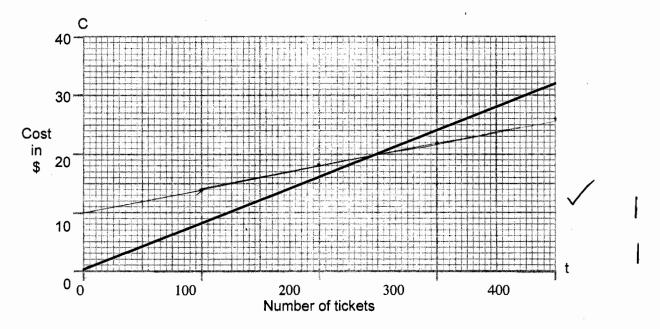
1. Using C for the cost of the printing and t for the number of tickets, Susie writes a formula for each of the printers. Here is her formula for *Sure Print*:

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

Write the formula for Best Print:

2

2. Susie's brother Rob has drawn *Sure Print*'s graph on a grid. Draw the graph for *Best Print*.



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

Show how Susie may have calculated C and t.

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

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

$$10 + (250)$$

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

$$10 + 10 = C$$

$$t = 250$$

$$20 = C$$

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