






Who is estimating? Multiplication

Your teacher will show you responses from five people who were asked to **estimate** this multiplication:

$$67 \times 34$$

Some of them were estimating and some were not. For each flash card:

- . circle either the tick or the cross in the box to show whether that person is / is not estimating;
- . explain your answer.

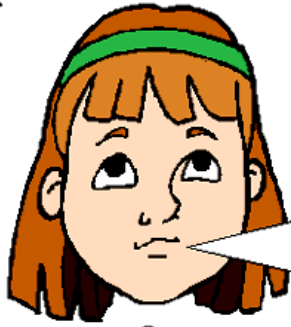
	Estimating or Not? (✓ or ✗) (Circle one)	Explanation why they are estimating or not.
a)  Sam	✓ ✗	
b)  Aroha	✓ ✗	
c)  Gina	✓ ✗	
d)  Peter	✓ ✗	
e)  Josef	✓ ✗	

Some people were asked to ESTIMATE the product of these two numbers

$$67 \times 34$$

For each flash card

- › decide if this person is estimating
- › explain why you say this.



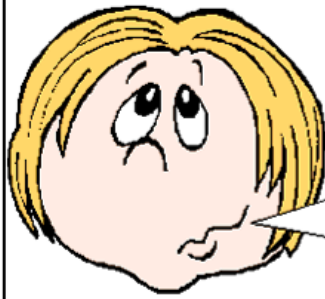
Sam

I got out my calculator and worked it out.

I said that $60 \times 30 = 1\,800$ and that's my estimate.



Aroha



I just guessed...
I think it's
1 432.

Gina

$$\begin{array}{r} 65 \\ \times 35 \\ \hline 325 \\ 1950 \\ \hline 2275 \end{array}$$

... and
that's my
estimate.



Peter



I said that
 $70 \times 30 = 2\ 100$
and that's my
estimate.

Josef