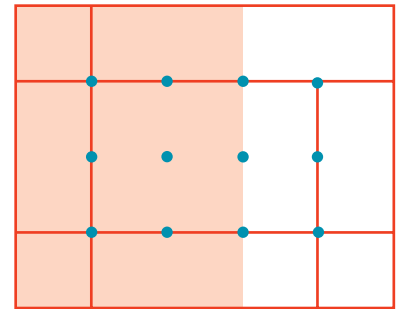


What Do You See?

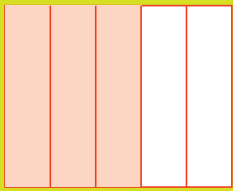
Activity

Ms Wright's class have been working with fractions. She asks her students a question and gets a surprising number of different answers ...

Give me a name for what is shaded and tell me how you know that this name is correct.

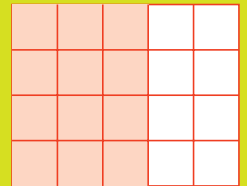


$\frac{3}{5}$. I can see 5 columns, and 3 are shaded:



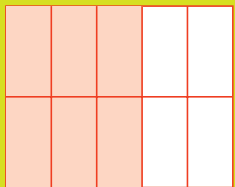
Maree

$\frac{12}{20}$. I can see 20 little squares. 12 are shaded:



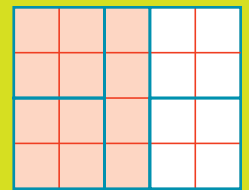
Tiffany

$\frac{6}{10}$. I see it as 10 rectangles. 6 are shaded:



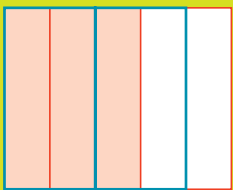
Liang

I see it as $\frac{3}{5}$, too, but in groups of 4:



Max

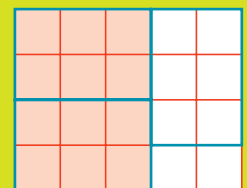
I see $2\frac{1}{2}$ rectangles. $1\frac{1}{2}$ of them are shaded:



$$\frac{1\frac{1}{2}}{2\frac{1}{2}}$$

Tawhai

I can see groups of 6 squares. 2 are shaded:

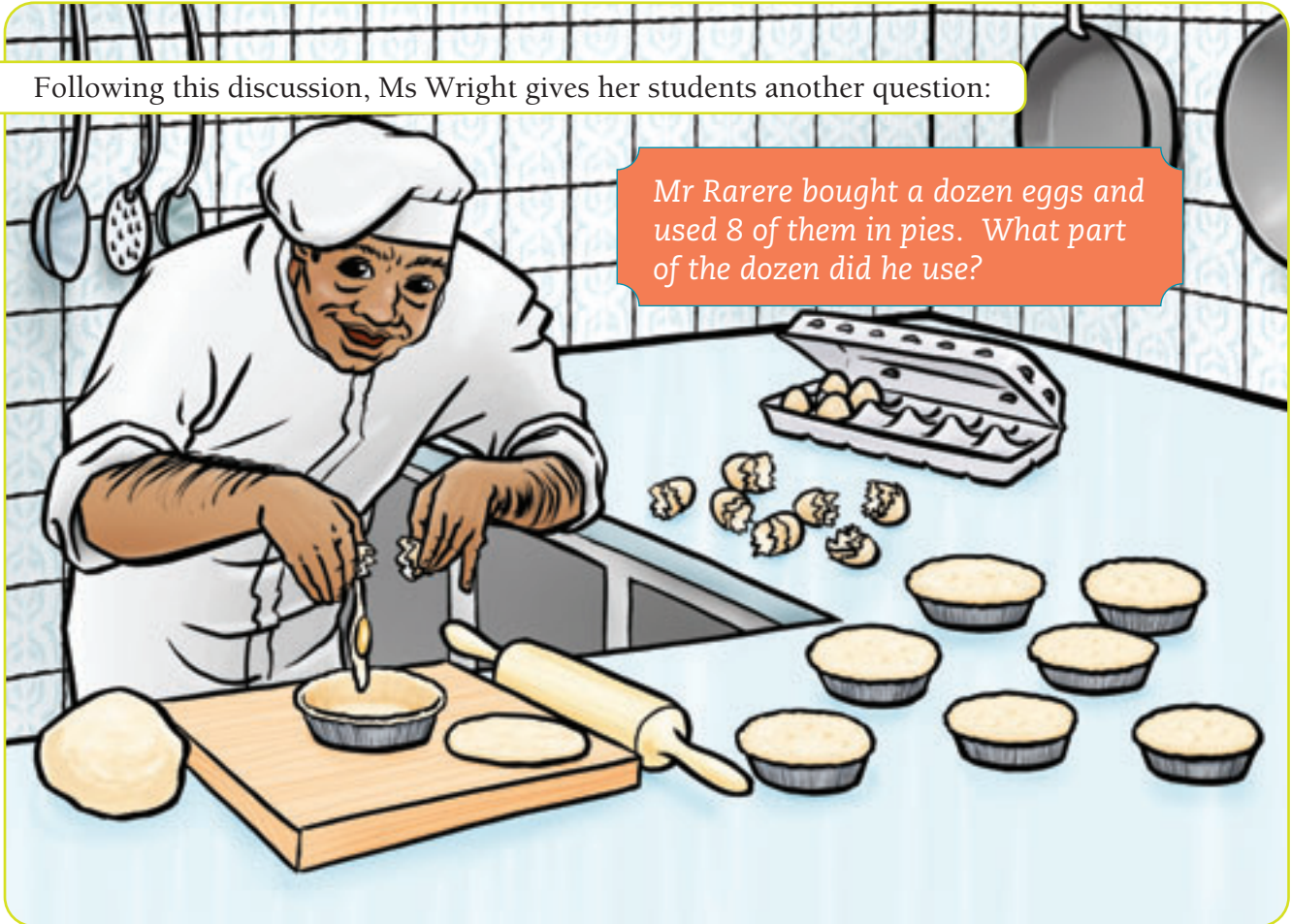


$$\frac{2}{3\frac{1}{3}}$$

Adrian

Following this discussion, Ms Wright gives her students another question:

Mr Rarere bought a dozen eggs and used 8 of them in pies. What part of the dozen did he use?



1. List as many different answers as you can to Ms Wright's question.
2. List at least six fractions that are equivalent to $\frac{3}{12}$.
3. a. Copy and complete the chart, showing what fractions the egg trays can be divided into:

	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{9}$	$\frac{1}{12}$	$\frac{1}{16}$
18-tray	✓	✓	✗					
24-tray								
32-tray								



18-tray



24-tray



32-tray

- b. Where you have a ✓ against a tray in the $\frac{1}{6}$ and $\frac{1}{8}$ columns, show at least three ways of splitting that tray into this fraction.