## **Fractions**

Lots of practical activities and visuals are key to helping to understand fractions. Sharing activities will help learners to make the links between division and finding a fraction of a quantity. Can you share this bar of chocolate equally between 2, 4 and 8 people? How many pieces will each person get? Can you see the links between halves, guarters and eighths?



Can you share this bar of chocolate equally between 3, 6 people? How many pieces will each person get? Can you see the links between thirds and sixths?

Understanding that 2 fractions can have the same overall size is very important. These are called 'equivalent ' fractions.

1	_ 2 _	_ 4	and	1	2
$\frac{1}{2}$		$\overline{8}$		$\frac{1}{3}$	$\overline{6}$

One half is the same as two quarters, which is the same as four eighths. What other equivalent fractions can you find on our fraction wall?





# Glasgow Counts

# Parent Information Leaflet for First Level









### Links between multiplication & division

Children will be learning about multiplication and division at the same time as the two concepts are related.

$\leftrightarrow \leftrightarrow \leftrightarrow$	This model is called an array. It helps children to see and understand			
	why 3 x 4 = 12.		x2 x2 x2 x2	
2222	Also	4 x 3 = 12	7777	
$\Rightarrow$ $\Rightarrow$ $\Rightarrow$		12 ÷ 3 = 4	27 27 27 27	
4 $4$ $4$		12 ÷ 4 = 3	$\Rightarrow \Rightarrow \Rightarrow \Rightarrow$	

This table is called a bar model and helps link division with fractions.



From this children can see that:  $12 \div 4 = 3$  (a quarter of 12 = 3)  $12 \div 2 = 6$  (half of 12 = 6) and  $4 \times 3 = 12$  (4 groups of 3).

#### Strategies for multiplication & division Repeated addition or skip counting

Adding the same number again and again in order to find the answer to a multiplication problem.

6 x 5 is the same as 5 + 5 + 5 + 5 + 5 + 5 or 6 + 6 + 6 + 6 + 6

#### Making friendly numbers

19 x 2 = ? 20 x 2 = 40 then adjust 40-2 = 38

#### Doubling and halving (multiplication only)

You can double one factor and half the other to make the problem simpler.  $4 \times 45 \longrightarrow 2 \times 90 = 180$ 

#### Split strategy (multiplication only)

Break apart the numbers to make them easier to work with.



