

Can I find simple equivalent fractions?

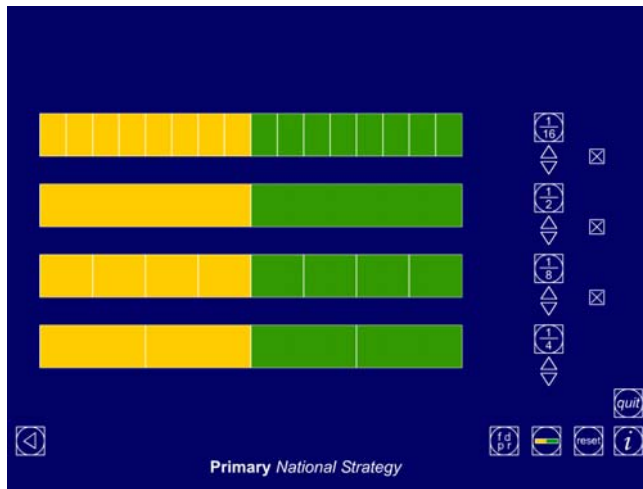
Teaching guidance

Key vocabulary

numerator, denominator, fraction, proper/improper fraction, equivalent, reduced to, cancel

Models and images

Model how a fraction wall can be used to find equivalent fractions.



Fractions ITP

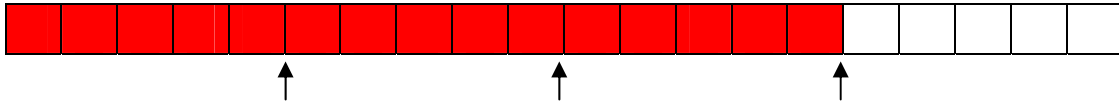
Demonstrate how a multiplication board can be used to scale up fractions.

Discuss with children what needs to happen, to change $\frac{3}{4}$ into other equivalent fractions.

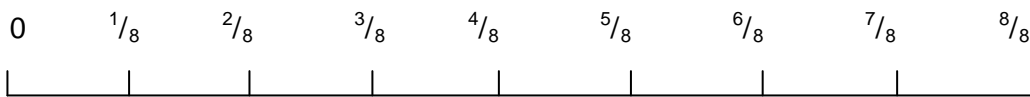
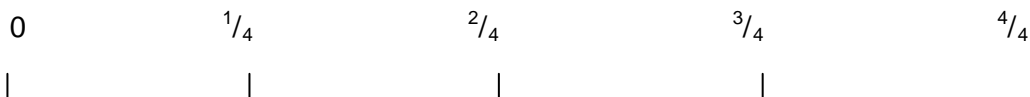
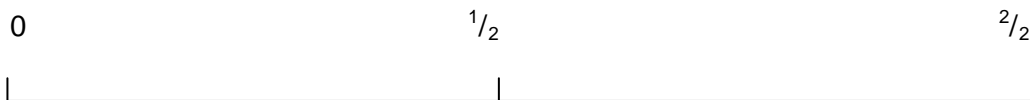
1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

Teaching tips

- Children need the opportunity to practise finding equivalent fractions by scaling simple fractions up or down.
- Use paper-folding to help establish equivalence; for example, fold a strip of 20 squares into quarters and colour $\frac{3}{4}$ of them to establish that $\frac{3}{4}$ is the same as 15 out of 20 or $\frac{15}{20}$.



- Focus on recognising the patterns in sets of equivalent fractions and making links between multiplication and division.
- Represent fractions on a number line. This can help show that the same point on the number line can have more than one label, for example, 1 could also be labelled as $\frac{2}{2}$, $\frac{3}{3}$, $\frac{4}{4}$, $\frac{5}{5}$.



- Use a multiplication grid or the *Multiplication board* ITP to investigate families of equivalent fractions.

X										
	2	4	6	8	10	12	14	16	18	20
	3	6	9	12	15	18	21	24	27	30

- To consolidate understanding, play games with dominoes or cards that involve identifying and matching equivalent fractions.