

Number: Fractions – Suggestions for children’s learning

The child has opportunities to...

Understand and connect

- engage in playful activities that show fractions in real-life situations, e.g., *I scored 4 basketball shots out of 10, what fraction did I miss?*
- explore links between the value of fractions and their corresponding place on the number line.
- investigate how a shape or set can be divided in different ways and how this can be represented in fractional form.
- represent proper and improper fractions and equivalent fractions using concrete, pictorial and virtual manipulatives.



- engage in discussion-based activities, related to meaningful contexts to become familiar with the language of fractions, e.g., *examining test results, splitting a bill at a restaurant.*
- use and respond to the language of fractions in their daily routine, e.g., *looking at quarter intervals on the clock.*
- represent their thinking using concrete, pictorial and virtual manipulatives.
- listen to, share and explain ideas, strategies and solutions related to fractions.



Communicate

Reason

- use their own life experience of fractions in play, at home, etc. to justify an idea, strategy or solution, e.g., *distributing playing cards for a card game, using ratios in preparing food/drink for a party.*
- engage in prediction and estimation before completing a solution on a fractions problem.
- justify their representation of a fraction, e.g., *on a number line, pictorially.*
- choose the most appropriate presentations of fractions to suit the problem, e.g., *length, area or set models.*



- use their knowledge of fractions to make decisions and solve problems in situations that are relevant to their lives, e.g., *how many teachers need to come on the school tour if we need a ratio of 1 teacher per 12 children?*
- share strategies used to estimate and investigate fractions problems, e.g., *using an empty number line, using square-grids, using counters.*
- devise fractions-based problems and solutions for peers using real-life events.
- convert fractions to decimals, percentages and ratios as appropriate to solve problems in the most efficient way.



Apply and problem-solve