

## Fraction Dice Games



### Fraction War

Working in pairs, pupils will need paper/whiteboard & two dice. Partners each roll both dice to make a fraction. The smaller of the roll is the numerator. If the person rolls doubles (same number twice, like two fives), that person automatically wins a point for that round. Once dice are rolled, partners work together to see which fraction is larger. The larger fraction wins.

**Variation:** Add or multiply the fractions and the pupil who correctly determines the sum/product first wins.

### Improper Fraction Challenge

Working in pairs or small groups, pupils will need paper/ whiteboard & three dice. Each pupil rolls the 3 dice and makes an improper fraction by placing two of the dice side by side as the numerator and the other dice as the denominator, and then simplifies to make a whole number or a mixed number.

For example, if the child rolled 1, 3, 7...Some possible fractions would be  $\frac{13}{7} = 1\frac{6}{7}$  ... or  $\frac{37}{1} = 37$ ... or  $\frac{17}{3} = 5\frac{2}{3}$ . The goal is to make the largest number possible.

**Variation:** Pupils use the same numbers to convert into a whole number or mixed number, by choosing one die as the whole number, one as numerator & one as denominator eg.  $7\frac{1}{3} = \frac{22}{3}$  ....  $1\frac{3}{7} = \frac{10}{7}$