



# Fraction Frolics Connect Four

**3/4**




**8/8**



**four quarters**



**1/5**



more than half	less than one, but more than a half	more than a quarter	less than a quarter	less than three quarters	less than a quarter
more than a quarter	less than a quarter	less than three quarters	less than one but more than half	more than a quarter	less than half
more than a quarter	more than a quarter but less than one	more than half	less than half	less than one	more than a quarter but less than a half
more than a quarter but less than a half	less than three quarters	less than a quarter	less than one but more than a half	more than half	more than a quarter but less than one

**1**



**seven eighths**



**five fifths**



**a quarter**



# Fraction Frolics

This activity was developed by colleagues from schools in the Shetland Islands after completing a collaborative learning workshop in 1995. Now sound enabled by Mantralingua [www.mantralingua.com](http://www.mantralingua.com)

The webaddress for this activity is:

<<http://www.collaborativelearning.org/fractionfrolics.pdf>>

Last updated 7th May 2020

It's empowering to talk an idea through before you write about it!

**Good for all pupils!**  
**Vital for EAL pupils!**

**Basic principles behind our talk for learning activities:  
Oracy in curriculum contexts!**

Build on children's own prior knowledge.  
Move from concrete to abstract.  
Ensure everyone works with everyone else.  
Extend social language towards curriculum language.  
Provide motivating ways to go over the same knowledge more than once.

COLLABORATIVE LEARNING PROJECT

Project Director: Stuart Scott

We support a network of teaching professionals to develop and disseminate accessible talk-for-learning activities in all subject areas and for all ages.

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# Fraction Frolics

## Teacher notes:

If more than four children are playing you may want to enlarge the board up to A3, but keep the cards fairly small (we have provided three sets getting progressively more difficult and printed in six different colours to help with classroom organisation) so that the words on the board are slightly visible when covered by a card.

### Aide memoire for teachers!

Once you have cut up the three sets of the cards, you will need to remember which colours go together. This will help you.



Let the children keep collaborative resources tidy!

# How to Play Fraction Frolics

The game is best played by two or three players against two or three players.

You need a game board and two sets of cards in two colours.

Shuffle the cards and place them face down.

Each team takes turns to pick their colour card and place it correctly on the board, discussing the best way to achieve four in a row and/or block their opponents. If you cannot place a card you should either miss a turn or pick another card. You need to decide this rule before you start.

The winner is the first team to get four in a row, vertically, diagonally or horizontally.

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# Fraction Frolics Connect Four Board

more than half	less than one, but more than a half	more than a quarter	less than a quarter	less than three quarters	less than a quarter
more than a quarter	less than a quarter	less than three quarters	less than one but more than half	more than a quarter	less than half
more than a quarter	more than a quarter but less than one	more than half	less than half	less than one	more than a quarter but less than a half
more than a quarter but less than a half	less than three quarters	less than a quarter	less than one but more than a half	more than half	more than a quarter but less than one

# Fraction Frolics connect four cards -Set 1

1	$\frac{3}{4}$	five fifths	$\frac{1}{2}$	a quarter	three fifths
one third	two thirds	three sixths	four sixths	a half	three eighths
two quarters	$\frac{2}{3}$	three quarters	two fifths	$\frac{1}{4}$	two halves
$\frac{8}{8}$	$\frac{1}{5}$	seven eighths	four quarters	one eighth	six sixths

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# Fraction Frolics connect four cards - Set 2

1	$\frac{6}{8}$	$\frac{5}{5}$	$\frac{5}{10}$	$\frac{2}{8}$	six tenths
$\frac{2}{6}$	$\frac{8}{12}$	$\frac{3}{6}$	four sixths	a half	three eighths
two quarters	$\frac{6}{9}$	three quarters	four tenths	$\frac{1}{4}$	four quarters
$\frac{20}{20}$	$\frac{3}{15}$	fourteen sixteenths	four quarters	$\frac{1}{8}$	six sixths



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two quarters	$\frac{6}{9}$	three quarters	four tenths	$\frac{1}{4}$	four quarters
$\frac{20}{20}$	$\frac{3}{15}$	fourteen sixteenths	four quarters	$\frac{1}{8}$	six sixths

# Fraction Frolics connect four cards - Set 3

one whole	$12/16$	$50/50$	$25/50$	$25/100$	six tenths
$20/60$	$80/120$	$33/66$	four sixths	a half	$30/80$
two quarters	$12/18$	$75/100$	$20/50$	$20/80$	eight eighths
$40/40$	$9/45$	$80/100$	forty fortieths	$5/40$	a hundred hundredths

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