

FRACTION FORTRESS™

Age 6+
2-4 Players

GAME GUIDE



WARNING:
CHOKING HAZARD—Small parts.
Not for children under 3 years.

Contents
76 x Fraction Fortress Blocks
1 x Fraction Spinner
1 x Game Guide

Dr Duncan's Notes to Teachers and Parents



Fraction Fortress™ is designed to help students develop their understanding of fractions by using multi-sensory learning. These colorful fraction tiles represent fractions in a circular view, to show groups of fractions or parts of a whole. This 3D view enables fraction relationships to be seen in a way not provided by written fractions.

These innovative fraction tiles also enable students to stack fractions on top of each other, and allows them to move sideways on the fraction stack, enabling manipulation of the fraction parts making up the whole.

A handwritten signature in grey ink, appearing to read "R. Duncan". The signature is fluid and cursive, with a small dot at the end.

How to play for 2 to 4 players

1. Set game up by placing all fraction tiles in color groups on the table.
2. Let the youngest player start by taking a spin on the spinner.
3. Take the fraction tiles that match your fraction on the spinner (i.e. if you roll $\frac{1}{4}$ take a fraction tile).
4. If the spinner lands on a knight or a princess take a free choice (choose any piece that's available).
5. As soon as you can make a fraction combination that makes up a whole, place the fraction tiles together as your base whole.
6. Continue to stack your fraction combinations on top of the base whole.
7. Take an extra turn on the spinner if you make a whole.
8. If you take a spin and your fraction piece is no longer available on the table, you must pass on that fraction piece.
9. Remember, you must not save or store up fraction pieces for stacking later on in the game – if you can make a fraction whole you must add them to your fortress.
10. When no more fraction tiles can be used by any of the players, stop the game and count the layers on your fortress.
11. Whoever makes the highest Fraction Fortress wins!

Try out these fun Classroom Activities

For an even greater challenge, try these fun classroom activities, in a pair, or in a group.

1. **Name that Fraction:** Have students identify the name of fraction pieces.
2. **Parts of Whole:** Use pieces of fractions to form whole circles. Show students how the bottom number of a fraction is called the denominator, and show how many of these pieces equal one whole.
3. **Compare Fractions:** Arrange fraction pieces in a row, from the smallest to the largest.
4. **Combining Fractions (Equivalent Fractions):** Show that combining fraction pieces can equal the size of other fraction pieces.
5. **Add and Subtract Fractions:** Show how fraction pieces can be added and subtracted. For example, move together two half pieces to make a whole. Then take two quarter pieces to make a whole, and so on and so on. Repeat with other examples to show subtraction.
6. **Fraction Games:** Show as many different ways as you can of creating a whole with fraction pieces.
7. **Tracing Fractions:** Trace fraction pieces with a pencil to make your own fractions on paper.

If you've enjoyed this game visit our website to see more of the fantastic Junior Learning range.

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