

# Balance BEANS™

Seesaw Logic Game

Going up and down on a Seesaw is fun! With Balance Beans, you'll have even more fun trying to keep your Beans balanced! Carefully place the colorful Beans on the Seesaw to keep it from teetering. When you balance the Seesaw, you are actually balancing an equation. Even if your Beans are going down, your logic skills will keep going up!

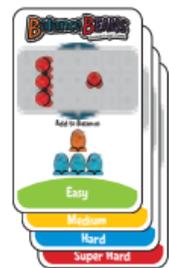


2

## GAME INCLUDES:



Seesaw Balance Tray & Base



40 Challenge Cards  
Easy to Super Hard  
with Solutions

### STATIONARY BEANS (ALL RED)



1 Single Bean



1 Double Bean



1 Triple Bean

### MOVEABLE BEANS



2 Single Beans



2 Double Beans



2 Triple Beans

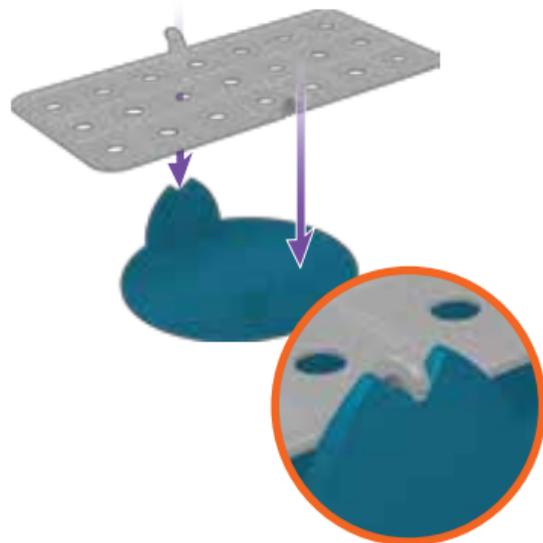
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## OBJECT:

Balance the Seesaw by adding the Beans shown on the Challenge Card to the Balance Tray.

## SETUP:

1. Assemble the Balance Tray onto the Base as shown in the diagram:



4

2. Select a Challenge Card.

3. Set the indicated Red Beans onto the Balance Tray as shown on the Challenge Card.

4. Gather the Beans shown in the "Add to Balance" section of the Challenge Card. Set aside the rest of the Beans.

## STEPS TO PLAY:

1. Place the indicated Beans onto the Balance Tray until it balances.

- You may not move the Red Beans during a challenge.

- You must place all of the indicated Beans onto the tray.

- You may place the Beans on either side of the Seesaw or on the middle row.

- You may place the Double Beans and Triple Beans either across the width of the Balance Tray or along the length of it.

2. When the Seesaw balances –YOU WIN!

5

## ThinkFun's Mission is to Ignite Your Mind!®

ThinkFun® is the world's leader in addictively fun games that stretch and sharpen your mind. From lighting up young minds to creating fun for the whole family, ThinkFun's innovative games and mobile apps make you think while they make you smile.

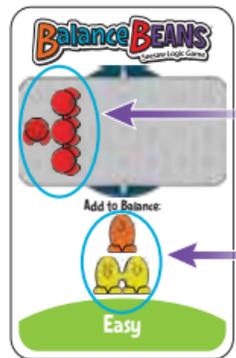


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## CHALLENGE CARD:

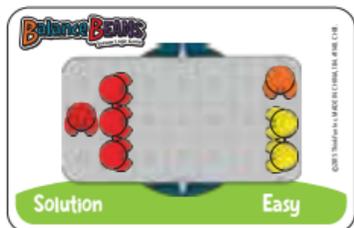


**STATIONARY BEANS**  
Pieces used to set up a challenge

**MOVEABLE BEANS**  
Pieces added to the Balance Tray to solve the challenge

## SOLUTIONS:

Solutions are on the back of each card. Note that a challenge may have more than one solution. Without looking at the back of the card, you will know you have won when the Seesaw is balanced!



6

## NOTE TO PARENTS:

Balance Beans is a great puzzle that is fun to play—simply move the Beans around using trial and error until you balance the Seesaw.

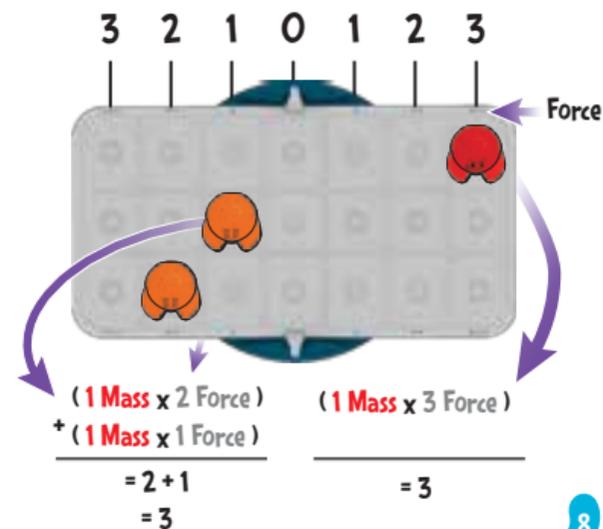
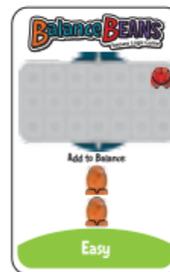
But wait... there's more! Underlying the play here is a fundamental principle of physics: the further out a weight is from the center of balance, the more downward force it exerts onto the Seesaw.

We have calibrated our balance so that a Single Bean that rests on the second row from the center of the Balance Tray will balance exactly with two Beans on the first row of the opposite side; and one Bean on the third row from the center of the Balance Tray will balance exactly with three Beans on the first row of the opposite side.

This allows you to work together with your child to solve Balance Beans challenges using math! Elementary Algebra, to be specific.

7

Here is an example showing how to use math to solve a Balance Beans challenge.



8

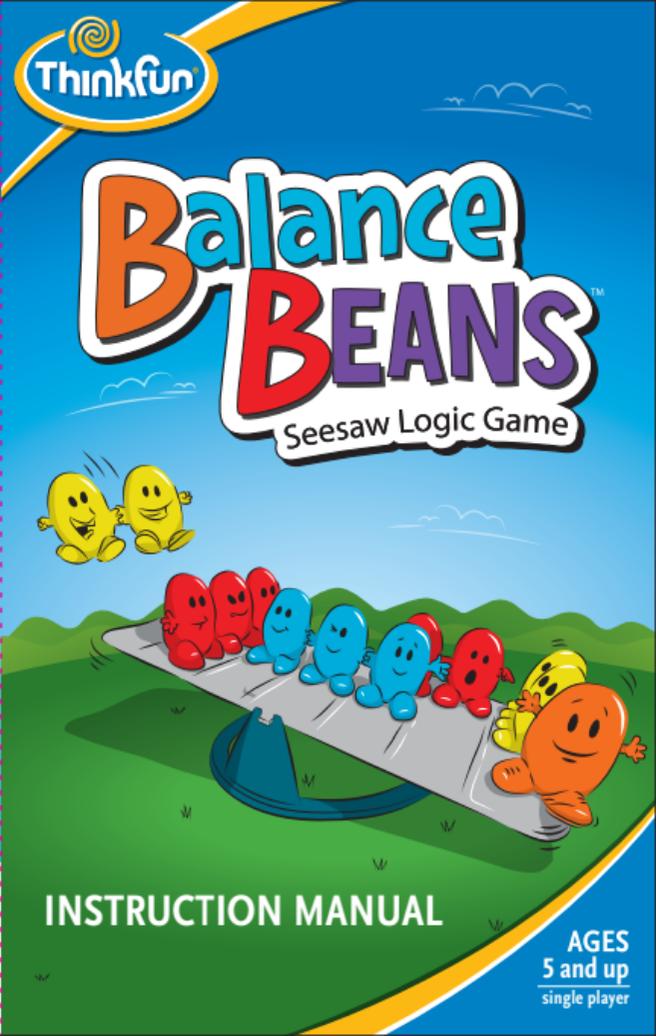
In this case, placing one Bean on the first row on the left side and one Bean on the second row on the left side will balance the Seesaw and solve the challenge!

Of course, it isn't necessary to use algebra to solve these challenges, but playing Balance Beans is so much fun that your child will welcome a little math with their playtime!

## ABOUT THE INVENTORS:

Vesa Timonen and Timo Jokitalo are puzzle inventors from Helsinki, Finland. In addition to inventing fun games and puzzles, including ThinkFun's teetering logic maze, Tilt, they have an expertise in software development and mathematics. These skills helped them to create a set of challenges that will surely get your brain cells firing!

9



INSTRUCTION MANUAL

AGES  
5 and up  
single player