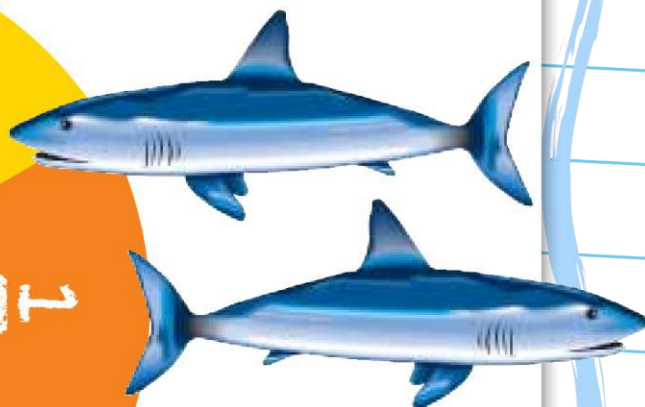
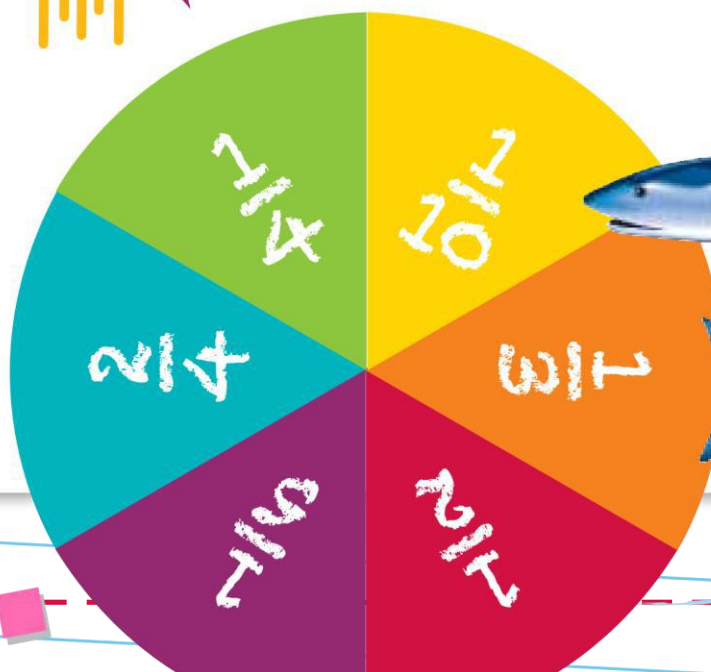
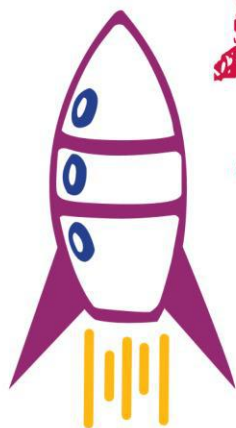


# Cool maths games for kids



## Fraction fun

Suggested age range 6 – 8 (Y2 and Y3)

Number of players 3 – 5

### How to prepare the game

- Print off the Fraction fun cards and cut them out.
- If 5 players are playing, print two sets of the cards.

## How to play the game

Each child is dealt 5 cards; the aim is to get rid of them. The pack is put in the middle of the table and a starting card is turned over. The first player must either match the fraction or the colour in order to play their card. If they can, play progresses to the next player. If they cannot match the fraction or colour with a card in their hand, they must take another card from the pack. This card can be played immediately if it matches. Play continues around the table with each child trying to get rid of their cards as quickly as possible.

Special cards include:

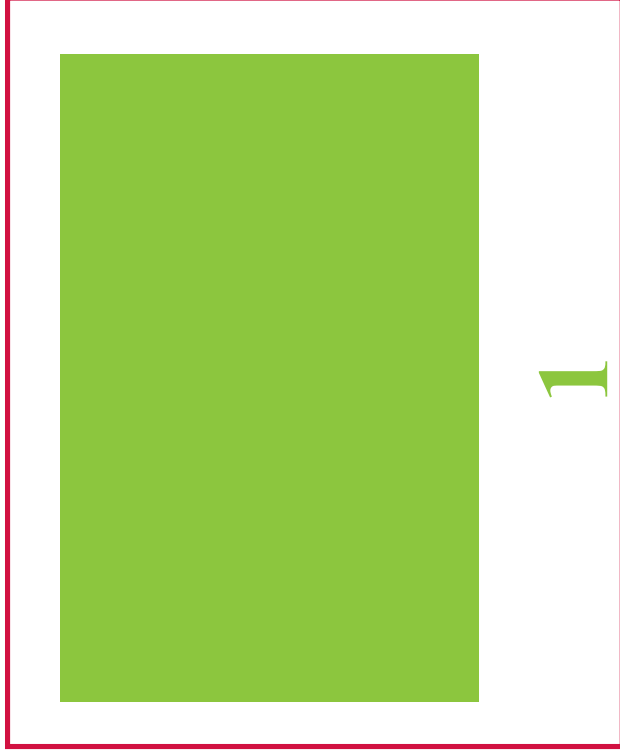
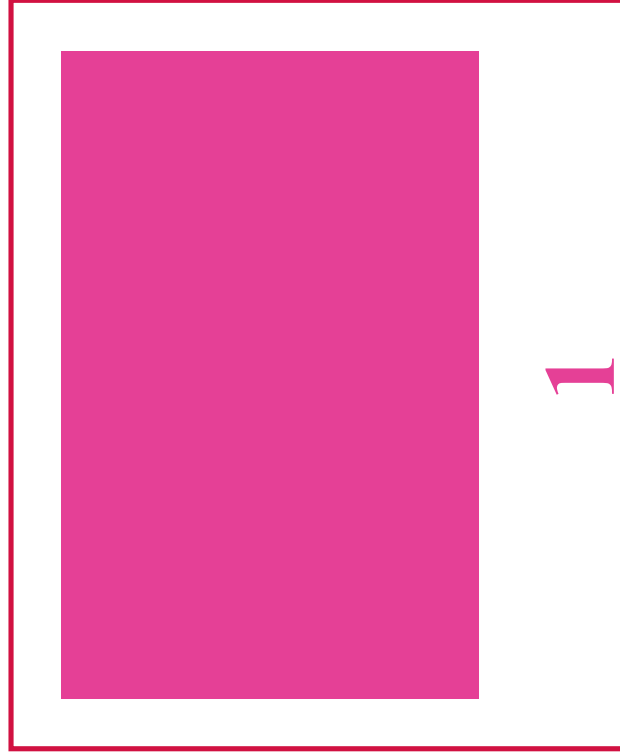
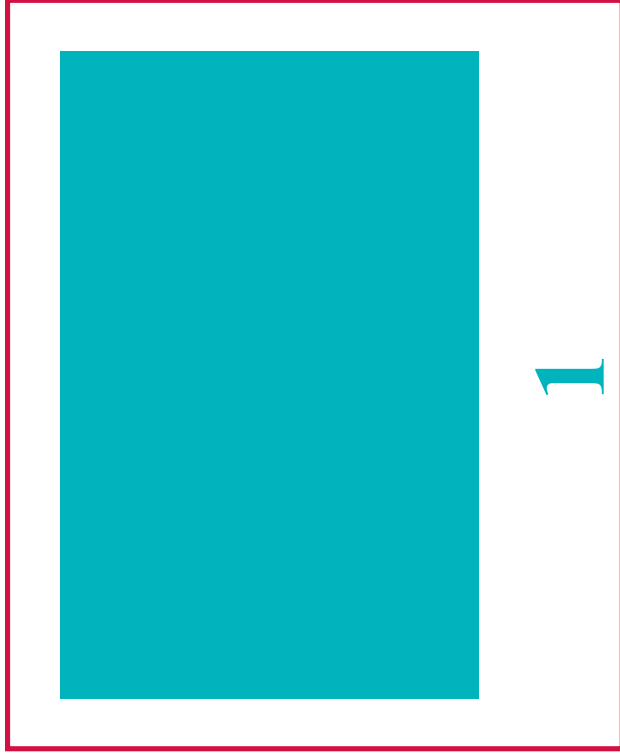
**Pick 2 cards:** Next player has to pick up 2 cards and lose their turn.

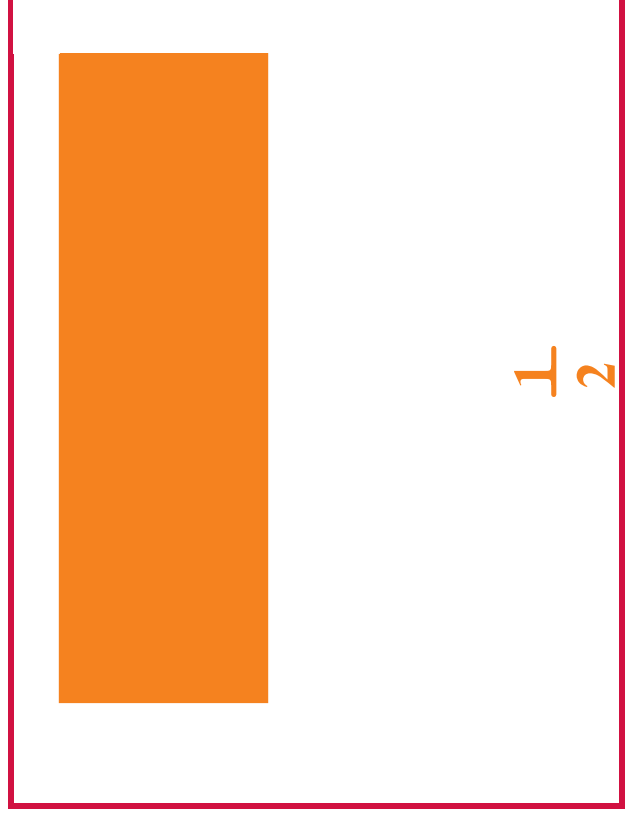
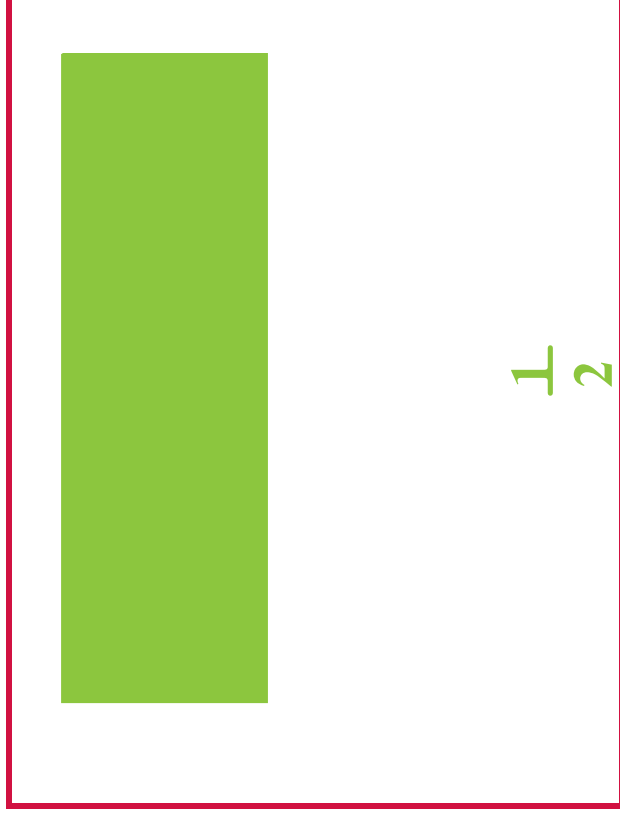
**Pick 4 cards:** Next player has to pick up 4 cards and lose their turn.

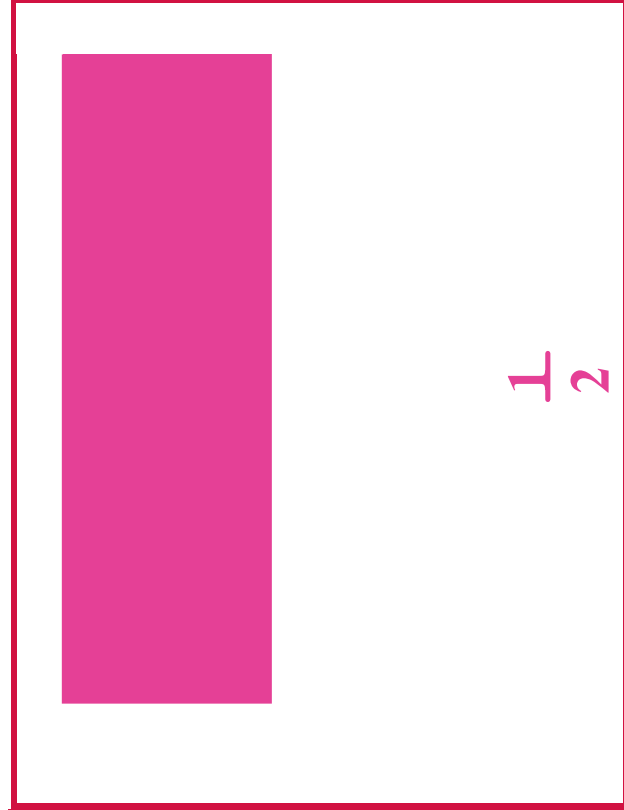
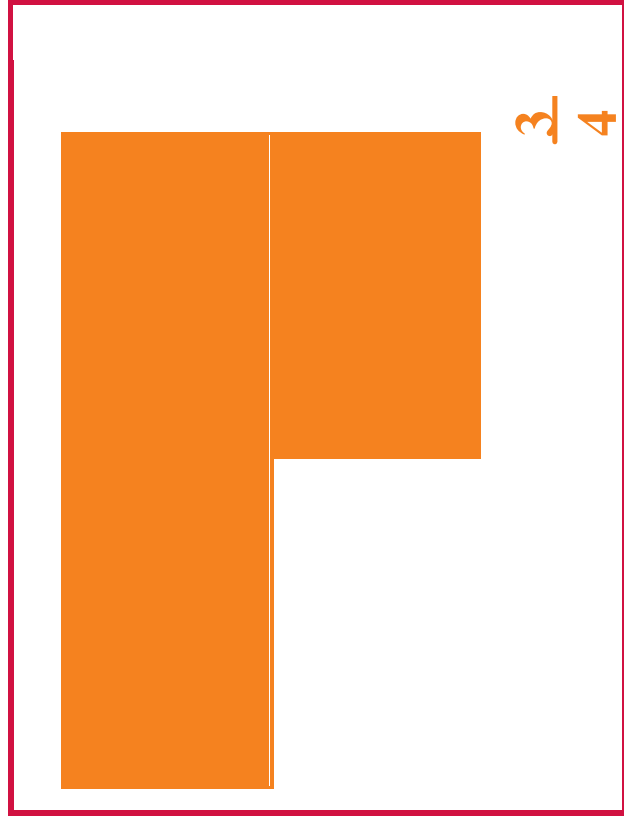
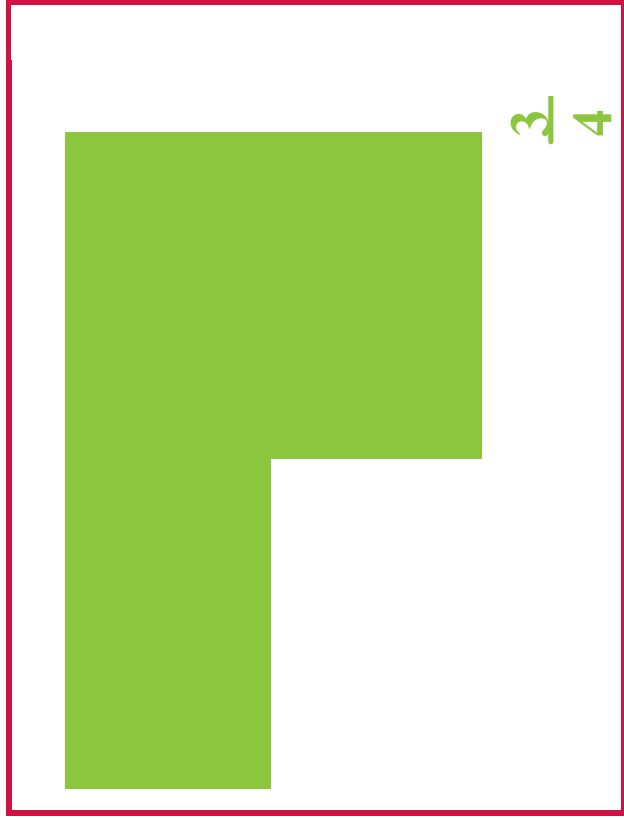
**Change direction:** Direction of play is reversed.

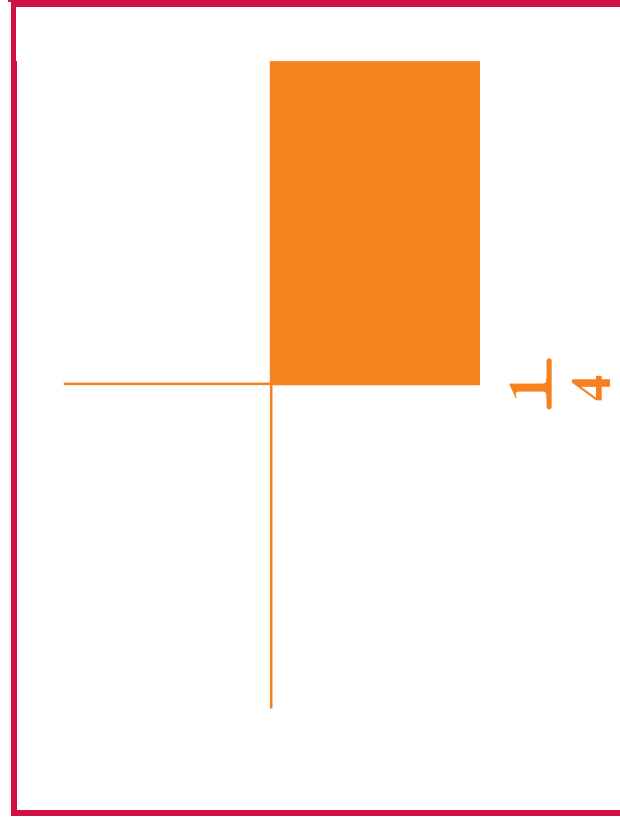
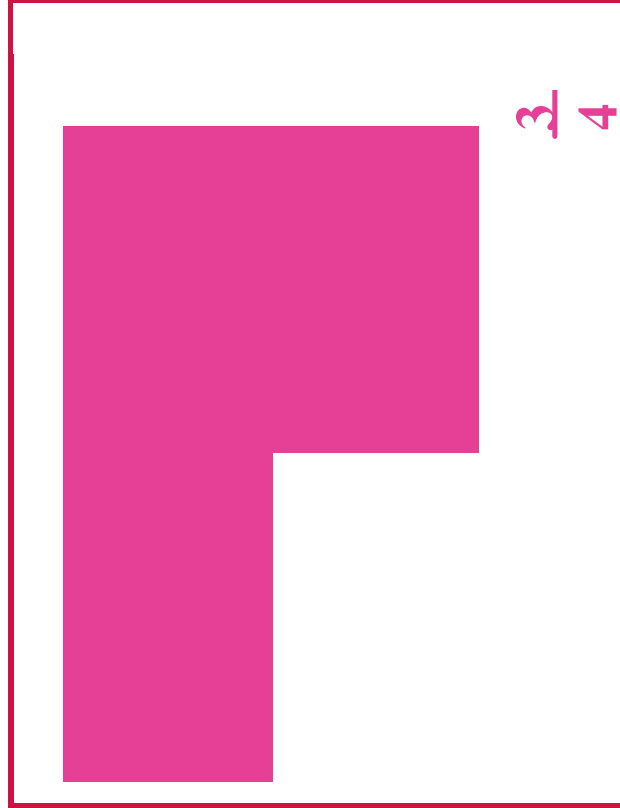
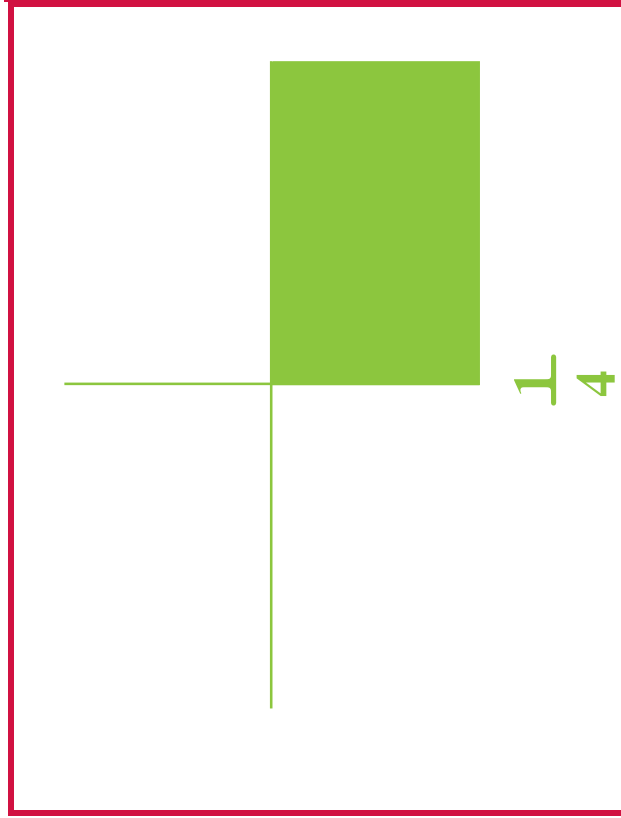
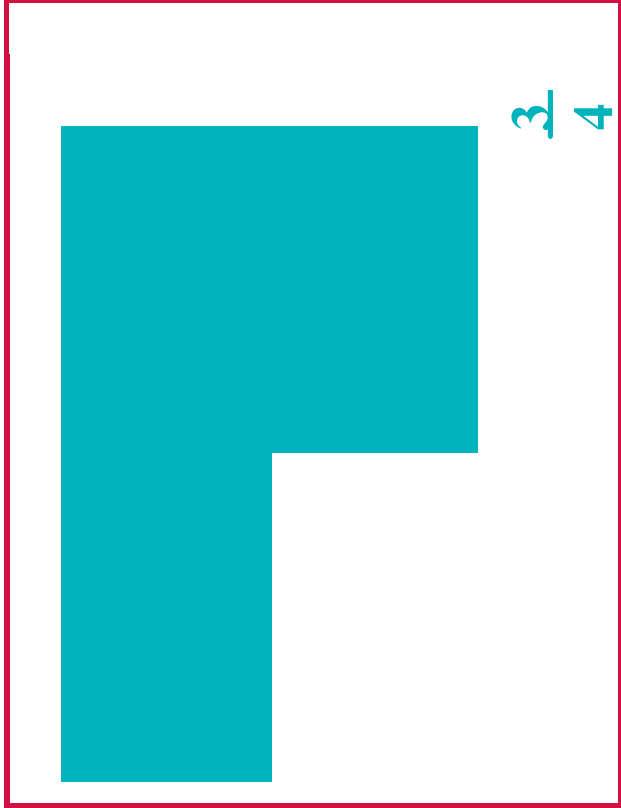
### How does this game support learning?

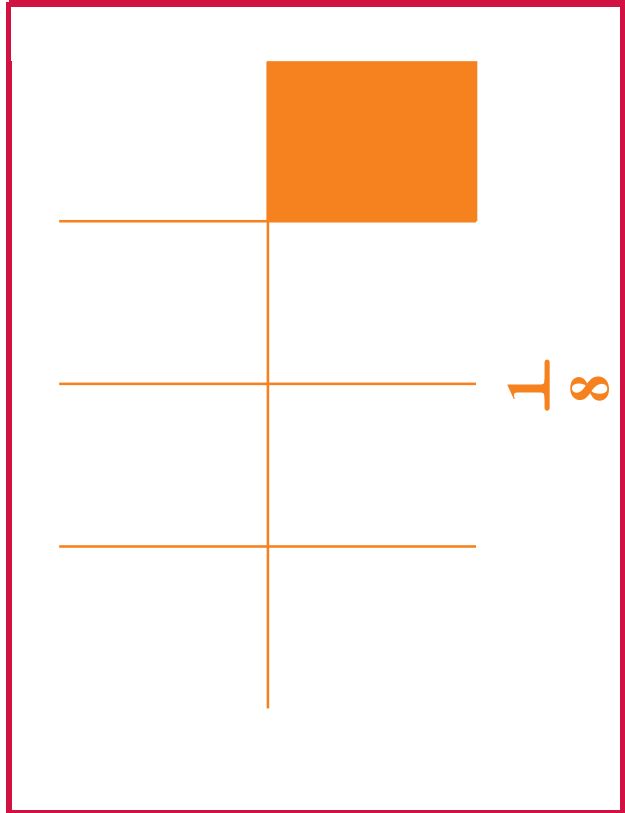
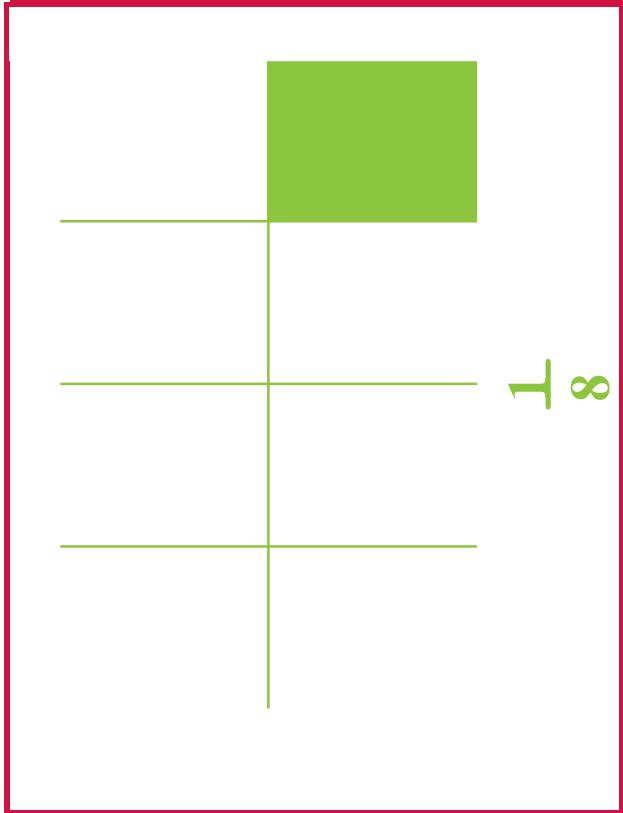
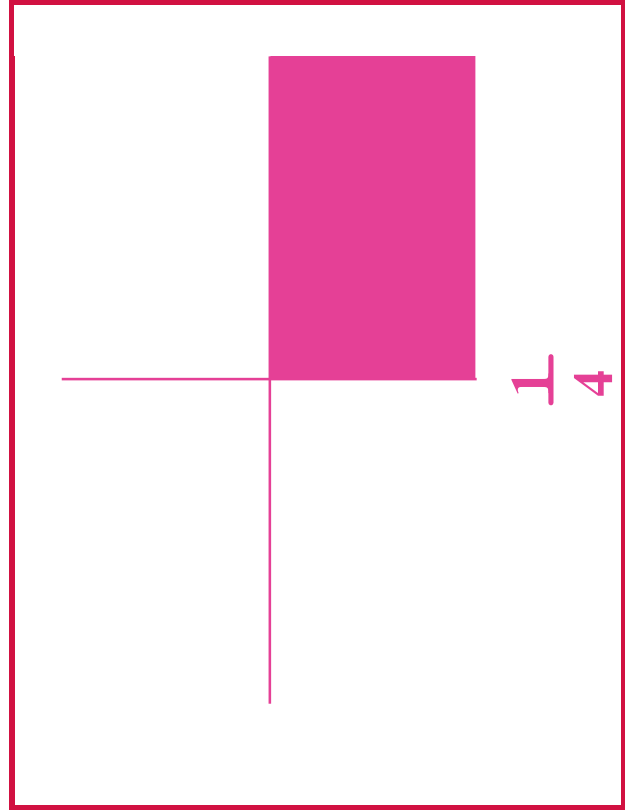
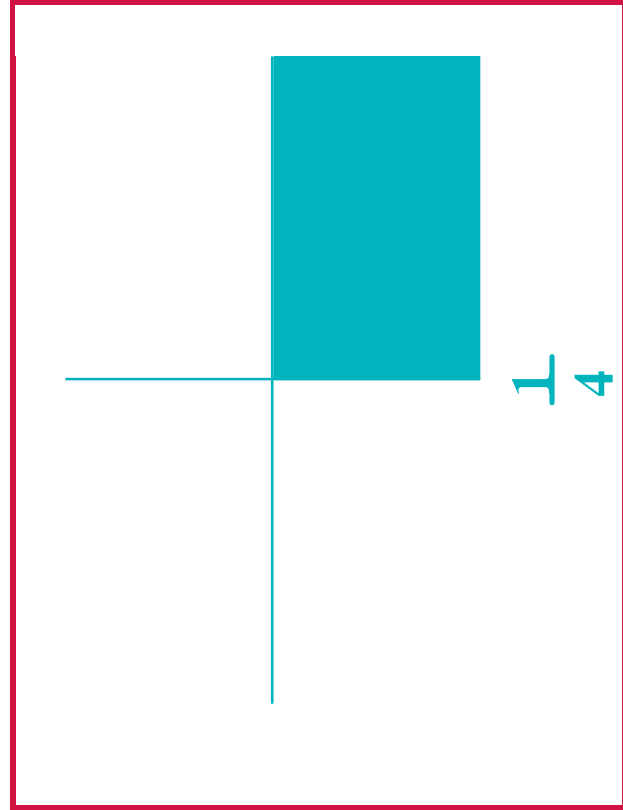
This game helps children to learn/revise simple unit fractions. This is a vital first step in their fraction work. Whilst playing, talk to your child about the different fractions. Which are bigger/smaller? Look at the denominator (the number below the line) and remind them that this tells us how many something has been divided or split up into. The game could be extended by printing off a second set of cards and changing some of the fractions, for example colouring in an extra segment on each of the  $\frac{1}{5}$  cards and changing the fraction to  $\frac{2}{5}$ .








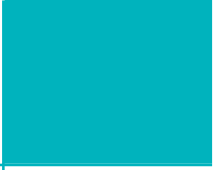







$\frac{1}{5}$

A green horizontal rectangle is shown above three horizontal green lines. The fraction  $\frac{1}{5}$  is written in green below the lines.




$\frac{1}{8}$

A cyan square is shown above a vertical cyan line and three horizontal cyan lines. The fraction  $\frac{1}{8}$  is written in cyan to the right of the lines.



$\frac{1}{5}$


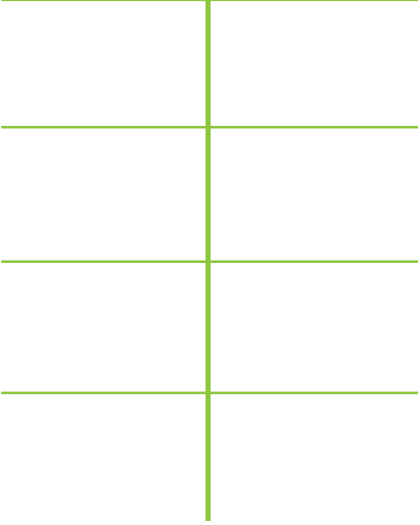

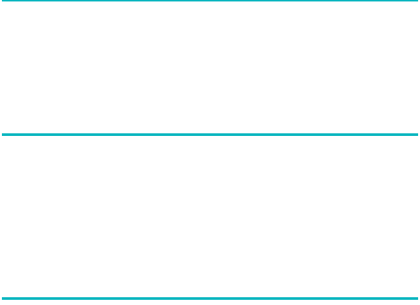
An orange horizontal rectangle is shown above three horizontal orange lines. The fraction  $\frac{1}{5}$  is written in orange below the lines.


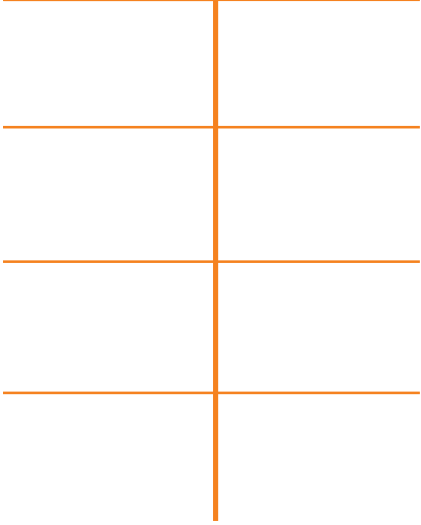

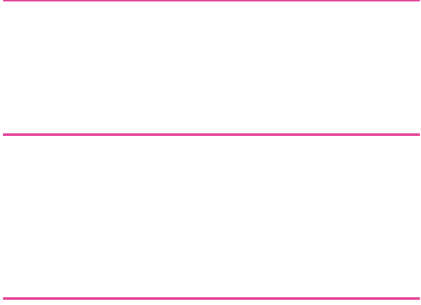


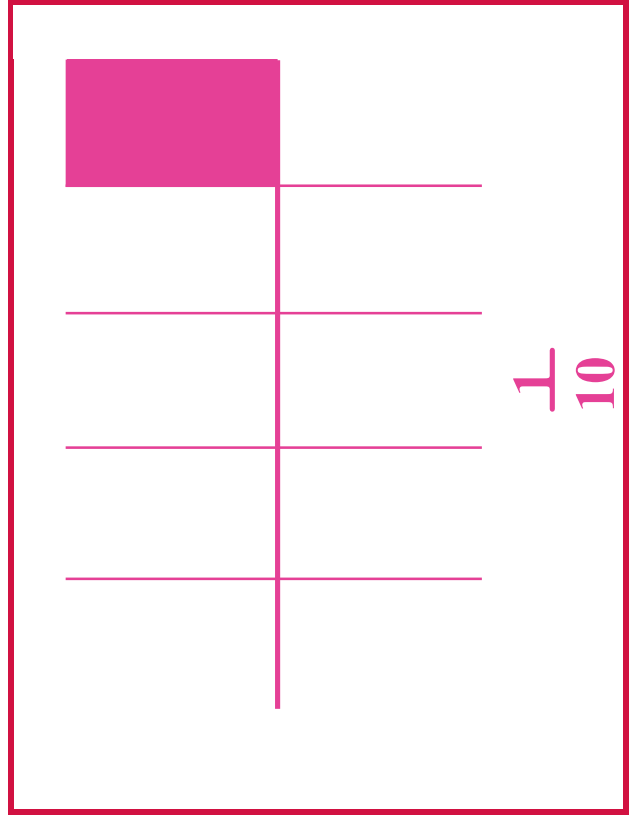
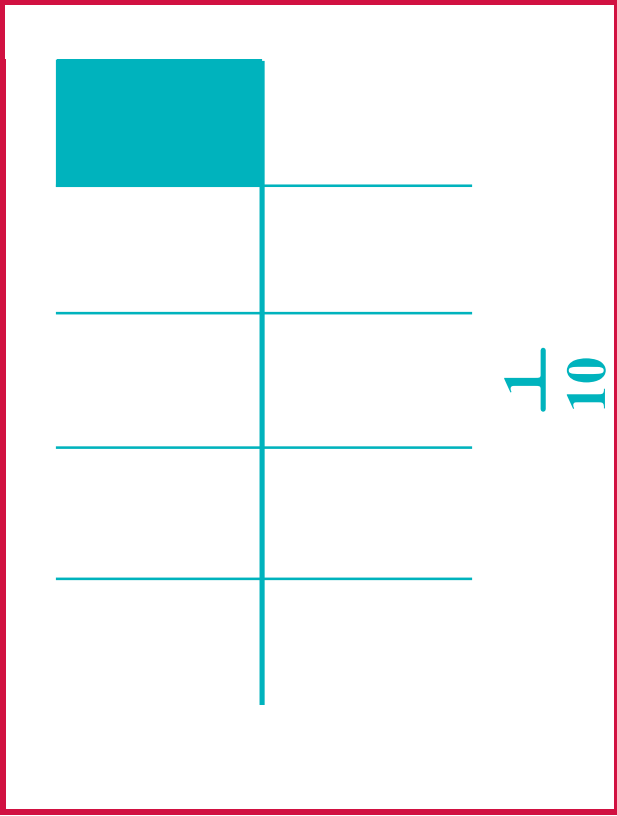
$\frac{1}{8}$

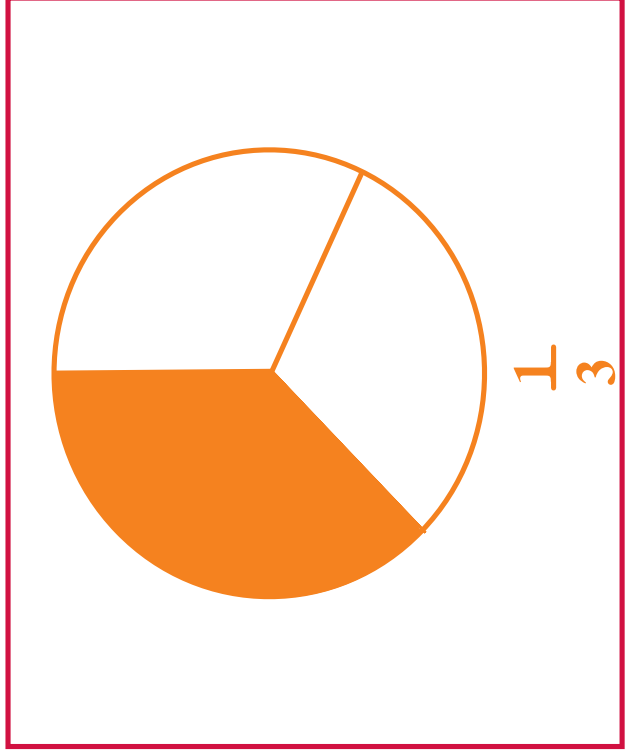
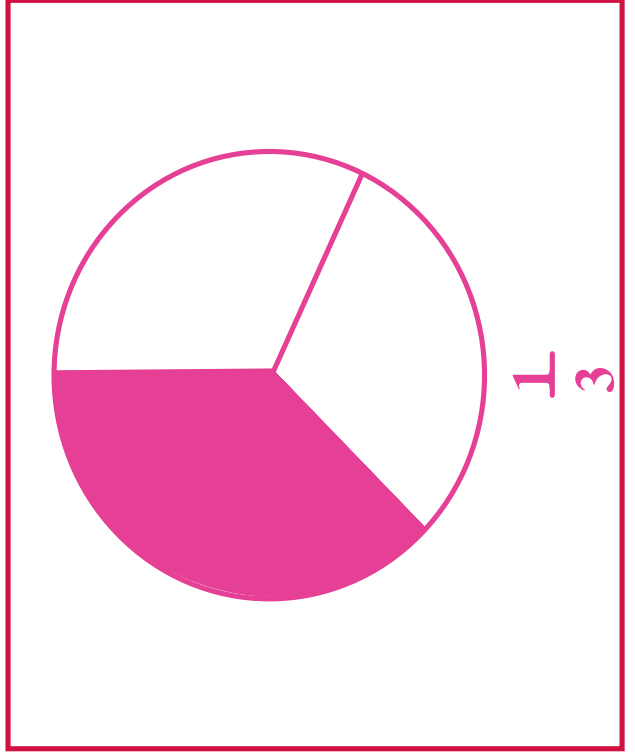
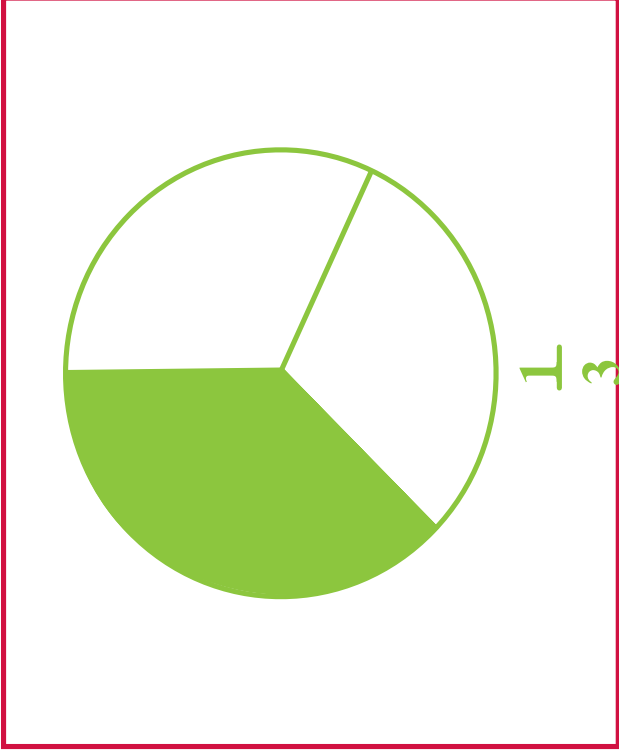
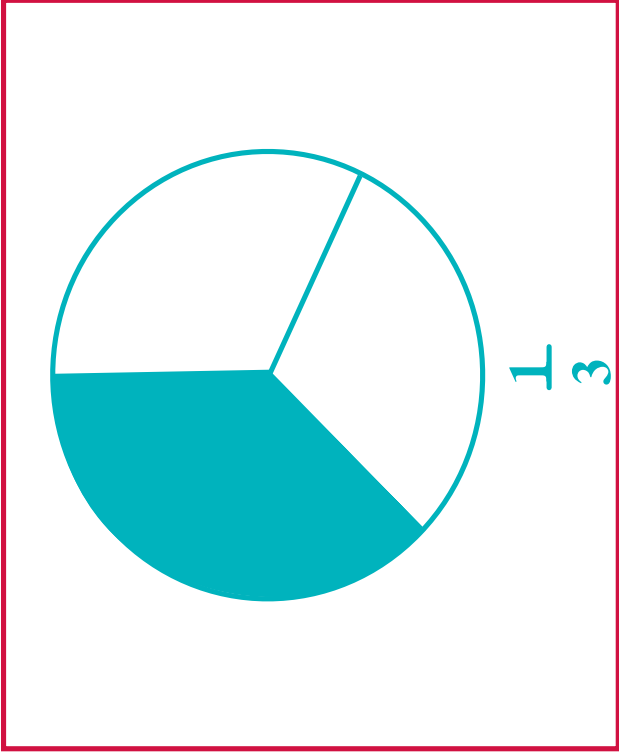
A pink square is shown above a vertical pink line and three horizontal pink lines. The fraction  $\frac{1}{8}$  is written in pink to the right of the lines.



  $\frac{1}{10}$	  $\frac{1}{5}$
--	---

  $\frac{1}{10}$	  $\frac{1}{5}$
--	---





**PICK UP**

**CARDS**

**PICK UP**

**CARDS**

PICK UP

CARDS

PICK UP

CARDS

**PICK UP**

**CARDS**

**PICK UP**

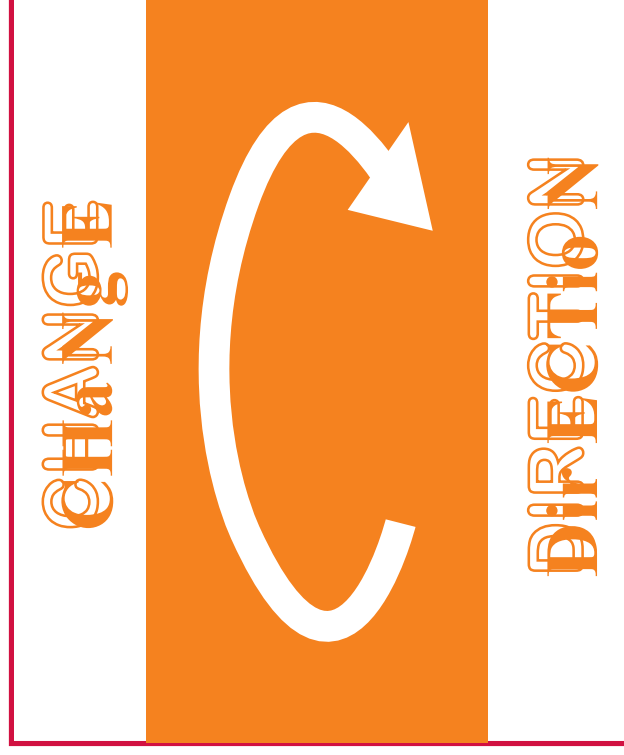
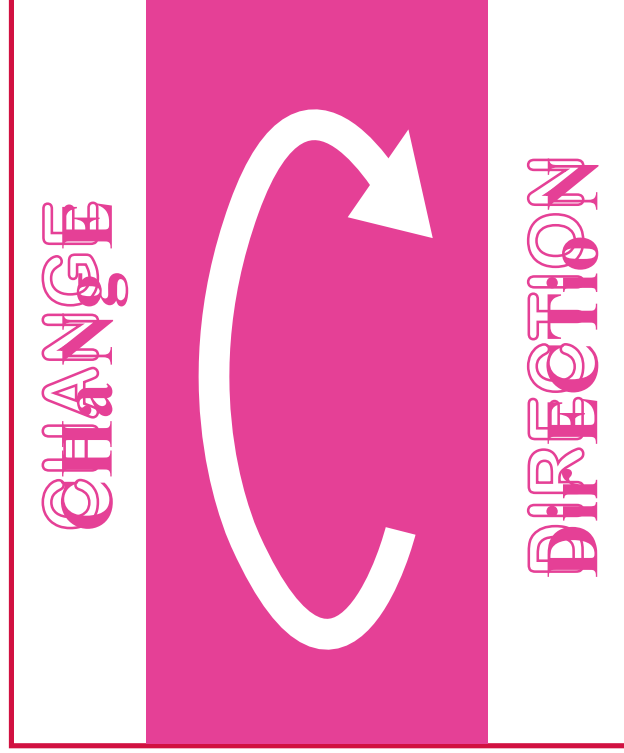
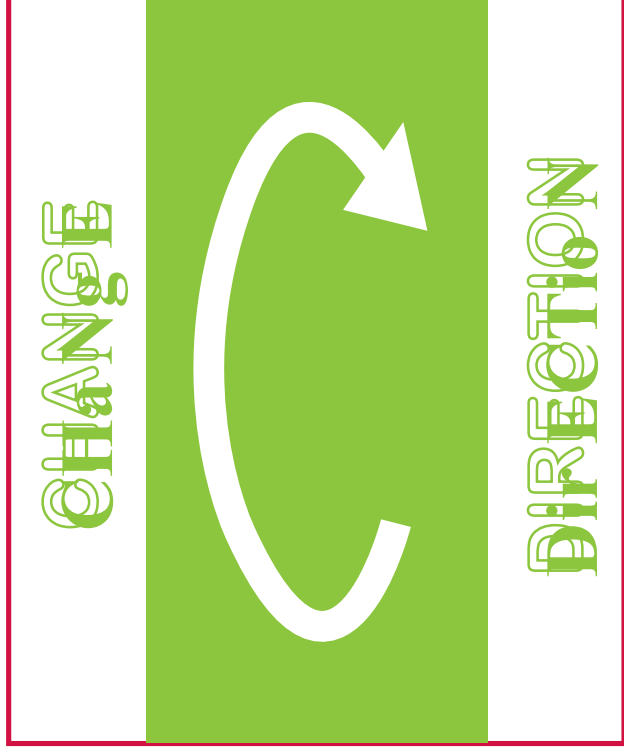
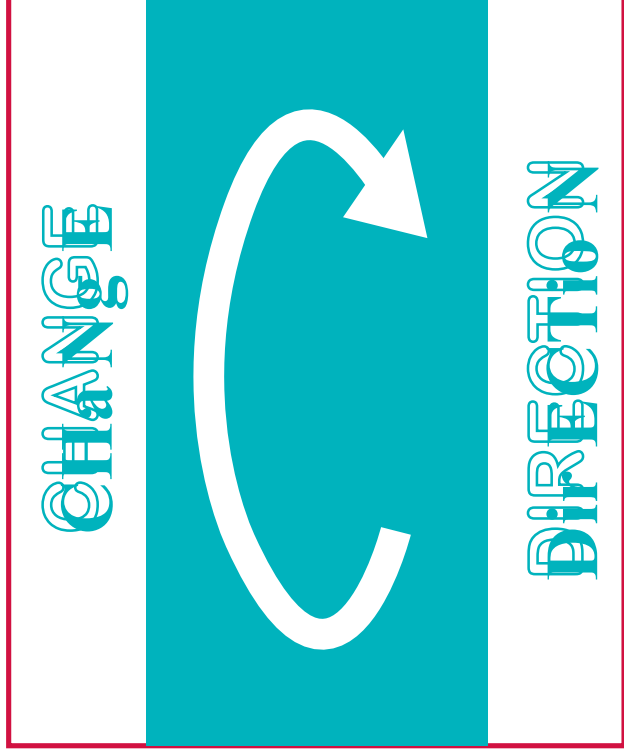
**CARDS**

PICK UP

CARDS

PICK UP

CARDS





## Fraction Tic-tac-toe

Suggested age range 8 – 11 (Y4 to Y6)

Number of players 2

### How to prepare the game

- Print off the Tic-tac-toe game board.
- Print off and cut out the fraction spinner. Create an arm for the spinner using a paperclip. Thread a brass fastener through both the paperclip and then the spinner, making sure the paperclip can spin freely.
- Provide each player with a coloured pen.

### How to play the game

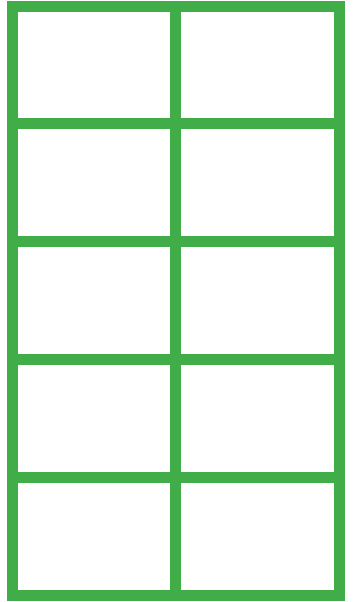
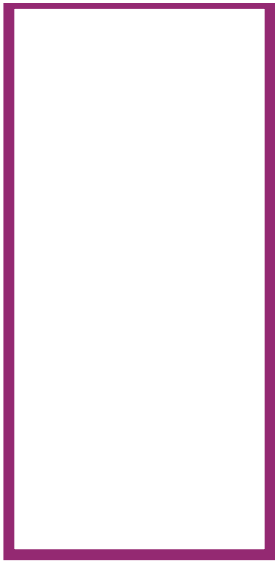
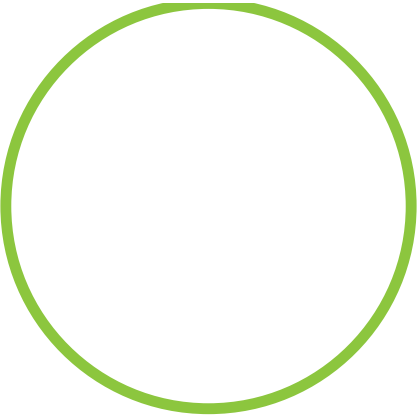
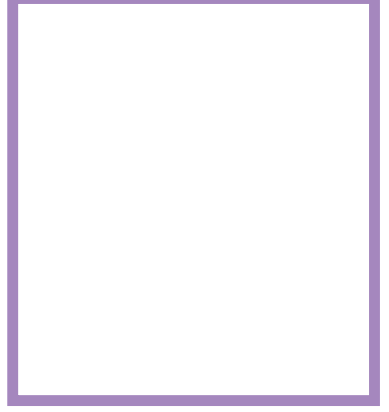
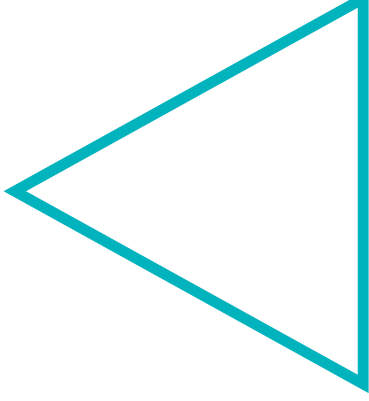
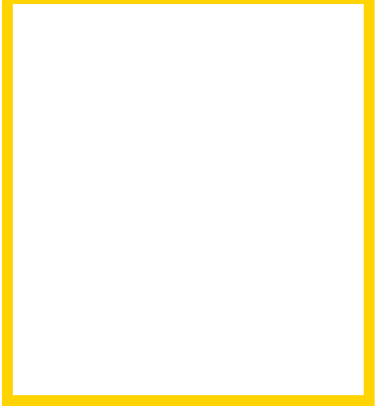
Each player spins the spinner. Choose a shape and draw this fraction on the board. Use either a different colour or your initials to indicate your squares. The winner is the person to get three correct fractions in a row, just like in tic-tac-toe (noughts and crosses).

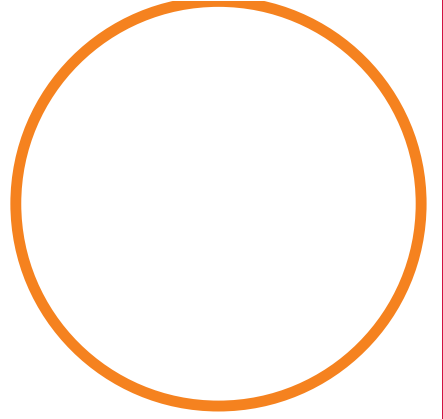
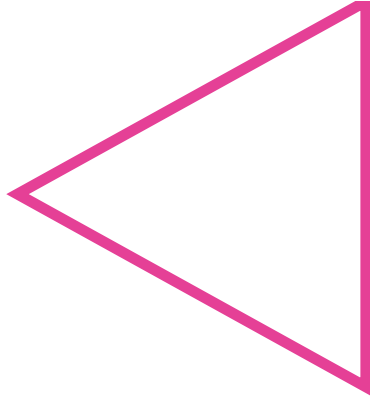
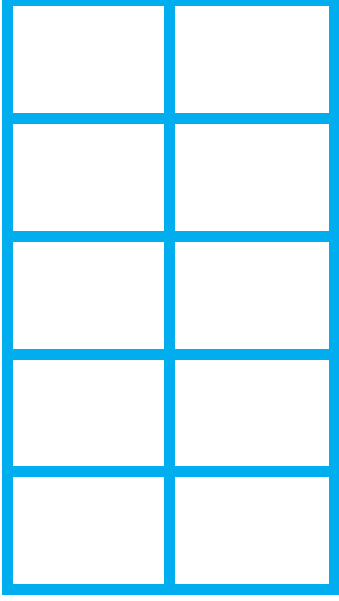
### How does this game support learning?

This game will help with the identification and drawing of different unit fractions. Remind children that the denominator (bottom number) shows how many pieces in total the fraction has been sliced up into and the numerator (top number) tells us how many pieces of this total we need or have.



# Fractional Table





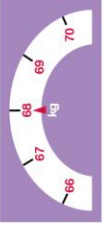

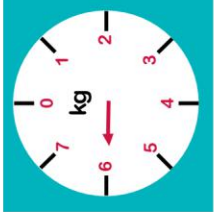

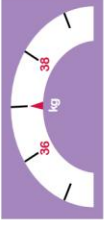






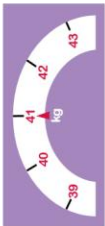

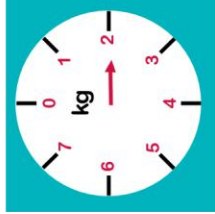






# Fraction tic-tac-toe



**Spinner**

# The Weights game

<p><b>FINISH</b></p>	<p><b>Challenge!</b></p> 	<p>I have 10kg. How many grams is this?</p>			<p><b>QUICK QUESTION!</b> How many 500g weights do we need to make 4kg?</p>		
	<p><b>QUICK QUESTION!</b> How many grams in 50kg?</p>		<p><b>Challenge!</b></p> 	<p>I have 8000g. How much is this in kg?</p>	 <p>How many grams?</p>		<p><b>Challenge!</b></p> 
<p><b>Challenge!</b></p> 	<p>A chocolate bar weighs 100g. How much do 4 weigh?</p>	 <p>How many grams?</p>			<p>How many grams in 12kg?</p>		
<p><b>START</b></p>		<p><b>Challenge!</b></p> 	<p>Each book weighs 2kg. How heavy is a box holding 6 books?</p>	<p><b>QUICK QUESTION!</b> Which weighs more, 1g or 1 kg?</p>		 <p>How many grams?</p>	