

Fraction Frolics

Kitchen Capers Connect Four



A game to help students understand the value of fractions and to recognise them written in both words and numbers. For the sake of fun the game is contextualised using food and cooking.

Suitable for students aged 8+

Learning Outcome: Students will be able to work out whether a fraction is more or less than a quarter, a half or a whole number.

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Fraction Frolics

Kitchen Capers Connect Four

Developed by teachers in the Shetland Islands
Illustrations from Mantra Lingua's Bilingual Talking Dictionary

Theme: Fractions

Age range: 8+

Context:

Fractions can be quite daunting for some students, so this game has been devised to help them recognise the value of fractions both in words and numbers. We have related the activity to food and cooking, so students will also be inventing some original fun dishes.

If you make your own version of this activity please send it to the address below to help expand our library.

Preparation:

Print out the A4 sheets. Make the A3 game board by trimming off the white border on the right hand side of the left half, and sticking it to the right half. If possible, laminate the Game Board and Instruction Cards. Cover the pages of the Fraction Cards with 'clear pvc self adhesive film'. Then cut out the squares to make the cards.

Leave the Score Cards un-laminated so that students can write on them.

HOW TO PLAY:

The instructions below are also on the next two pages so that each group playing has their own.

1. You need four players, one Game Board and two sets of Food Cards (different colour borders.)
2. Work with your partners to make two teams of two.
3. Each pair takes a set of cards.
4. Teams shuffle their cards and place them in a pile facing down.
5. Take it in turn to turn over your top card and decide where to put it on the board.
6. Once you have made a row of four Food Cards diagonally, vertically or horizontally, tick a box on your score sheet and give your concoction a name.
7. Remove all the cards and start again. The first team to fill the score sheet is the winner.

The cards must be played in a certain order and with a correlating pair. To the right is a list of the order of the cards and which game should be played with which colour set.

Game 1		+	
Game 2		+	
Game 3		+	

Learning Outcomes:

Students will be able to work out whether a fraction is more or less than a quarter, a half or a whole number. If you have found further learning outcomes please share them by emailing collaborate@mantralingua.com.

Mantra Lingua Ltd, Global House, 303 Ballards Lane, London N12 8NP 0044 (0) 208 445 5123

(You can purchase a professionally printed, sound-enabled version of this activity with pre-cut cards from www.mantralingua.com. Students can use TalkingPEN to record and re-record aurally onto the pages and cards. Recordings can be saved and used for assessment, or shared with other classes and schools via "ShareLINK".)

How to play Fraction Frolics Kitchen Capers Connect Four



Your pair is playing as the blue chef. Your challenge is to make 3 meals before the red chef does. The ingredients might seem a bit strange, but your dishes don't have to taste nice, they just have to be made the fastest. The pair that makes 3 meals first wins.

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How to play Fraction Frolics
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Game 2		+	
Game 3		+	





1 apple



$\frac{3}{4}$ of a banana



five fifths of a bag of beans



$\frac{1}{2}$ a steak



a quarter of a biscuit



three fifths of a broccoli



one third of a butter block



two thirds of a cake



three sixths of a carrot



four sixths of a cauliflower



half a box of cereal



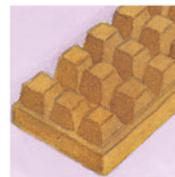
three eighths of a cheese block



two quarters of a cherry box



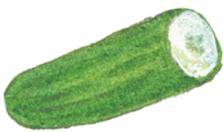
$\frac{2}{3}$ of a bag of chips



three quarters of a chocolate bar



two fifths of a bag of crisps



$\frac{1}{4}$ of a cucumber



two halves of an egg



$\frac{8}{8}$ of a fish



$\frac{1}{5}$ of a glass of fruit juice



seven eighths of a garlic bulb



four quarters of a bunch of grapes



one eighth of a jar of honey



six sixths of an ice cream tub



1 apple



$\frac{3}{4}$ of a banana



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one third of a butter block



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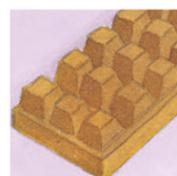
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four quarters of a bunch of grapes



one eighth of a jar of honey



six sixths of an ice cream tub



1 jar of jam



$\frac{6}{8}$ of a bottle of ketchup



$\frac{5}{10}$ of a lemon



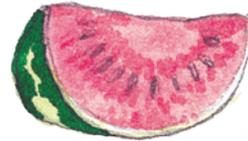
$\frac{5}{5}$ of a lettuce



$\frac{2}{8}$ of a box of lychees



$\frac{8}{12}$ of a mango



$\frac{3}{6}$ of a melon



four sixths of a bottle of milk



half a pudding



three eighths of a mushroom



two quarters of a bottle of mustard



$\frac{6}{9}$ of a pack of noodles



three quarters of an onion



four tenths of an orange



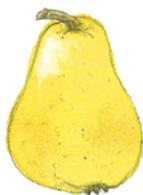
$\frac{1}{4}$ of a papaya



four quarters of a peach



$\frac{3}{15}$ of a bag of peas



$\frac{20}{20}$ of a pair



$\frac{3}{15}$ of a pepper pot



$\frac{4}{16}$ of a pineapple



four quarters of a pizza



$\frac{1}{8}$ of a plum



six sixths of a pomegranate



$\frac{20}{60}$ of a potato



1 jar of jam



$\frac{6}{8}$ of a bottle of ketchup



$\frac{5}{10}$ of a lemon



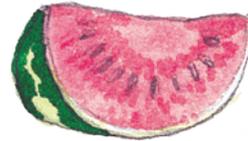
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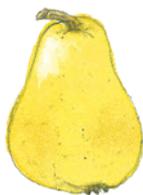
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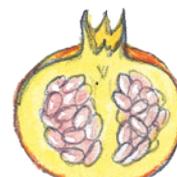
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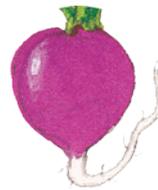
$\frac{20}{60}$ of a potato



one whole
pudding



one whole
pumpkin



$12/16$ of a radish



$50/50$ of a
bag of rice



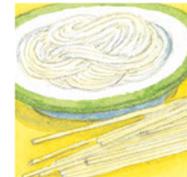
$25/100$ of a
salt shaker



$25/50$ of a
sandwich



six tenths of a
tin of soup



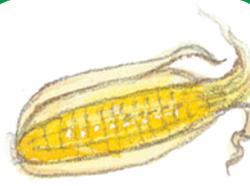
$20/60$ of a pack
of spaghetti



$80/60$ of a pack
of strawberries



$33/66$ of a bowl
of sugar



four sixths of a
corn on the cob



half a bag
of sweets



$30/80$ of a box
of tomatoes



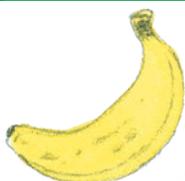
two quarters of a
bottle of water



$12/18$ of a
yogurt pot



$75/100$ of
an apple



$20/50$ of
a banana



$20/80$ of a bag
of beans



eight eighths
of a steak



$40/40$ of a tin
of biscuits



$9/45$ of a
broccoli



$80/100$ of a
butter block



forty fortieths
of a cake



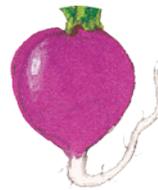
$5/40$ of a
carrot



one whole
pudding



one whole
pumpkin



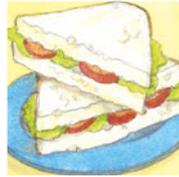
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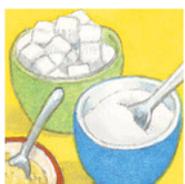
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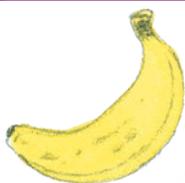
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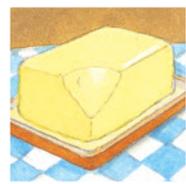
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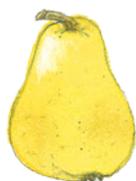
$5/40$ of a
carrot



FRACTION FROLICS KITCHEN CAPERS CONNECT FOUR



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



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



Blue Chef Score Card

Simply tick the box every time you complete a row and make a meal.
Look at your ingredients and think of a name for your dish.

Meal 1

Name of your dish

.....

Meal 2

Name of your dish

.....

Meal 3

Name of your dish

.....



Red Chef Score Card

Simply tick the box every time you complete a row and make a meal.
Look at your ingredients and think of a name for your dish.

Meal 1

Name of your dish

.....

Meal 2

Name of your dish

.....

Meal 3

Name of your dish

.....

