Introducing fractions – modelling fractions



e Cut them carefully along the folded lines and place the pieces inside your paper bag. This is your fraction kit!



You will need: ■ your fraction kit ■ a die



Number on die	Fraction piece from kit		
1 or 6	$\frac{1}{2}$ red		
2 or 5	$\frac{1}{4}$ yellow		
3 or 4	$\frac{1}{8}$ orange		

Game 1

The aim of this game is get as close to one whole as possible by placing pieces from your fraction kit on top of the whole.

Each player starts the game with the blue piece of paper from the kit. This is 1 whole.

Player 1 rolls the die and places a matching fraction piece on their whole.

Player 2 rolls the die and places a matching fraction piece on their whole.

Continue taking turns placing fraction pieces on top of the whole.

The winner is the player who is the closest to one whole without going over.

Game 2

The aim of this game is to be the first to reveal the whole piece of paper from your fraction kit.

Each player starts the game with the whole covered with 2 halves.

Player 1 rolls the die and takes off that fraction. Players may need to swap pieces first. For example, if you roll $\frac{1}{4}$ first, you need to swap $\frac{1}{2}$ for $\frac{2}{4}$ then you can take off $\frac{1}{4}$. Player 2 rolls the die and takes off that fraction, swapping pieces if needed. The winner is the player who is the first to reveal the whole piece of paper.



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Show one half in a different way on each rectangle: b а С Show how each shape can be divided into quarters: b а С Colour the fractions of each shape: **b** three quarters **d** three quarters a two quarters one half С Answer these sharing problems. Draw a picture to match: **a** I have 10 lollies and I have to share them with my brother. out of How many do we each get?

b There are 12 biscuits to be shared among 3 people.How many does each person get?





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5 Look at these fraction diagrams and label them.



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Introducing fractions – fractions of a collection





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Finding a fraction of different amounts is like division. Look at this tray of 4 ice creams. We can see that $\frac{1}{2}$ of this group is 2. This is the same as dividing 4 by 2.



Look at these fraction pictures. They have been divided into groups to help you. Complete the boxes to show how division and fractions are related. The first one has been done for you.



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Introducing fractions – fractions of a collection

5	Sh	hade the fraction of these amounts:								
	а	$\begin{array}{c} & & \\$								
	b	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$								
6	Fir	nd these amounts. Use counters to help you.								
	а	How many sweets did I get if I was allowed $\frac{1}{4}$ of 24? sweets								
	b	$\frac{1}{3}$ of all the kids in my class have a pet dog. How many have a dog if there are 30 kids in my class? kids								
	C	$\frac{1}{5}$ of all the kids in my class ate an apple at recess. How many apples were eaten if there were 30 kids in my class? apples								
7	Ja ch Ja	ckson loves to bake cookies. He is famous for his triple choc ip delights. Work out how many each person received if ckson baked a batch of 24 triple choc chip delights.								
	a His best friend Hamish got $\frac{1}{4}$. Hamish got triple choc chip delights.									
	b	He gave $\frac{1}{2}$ away to the teachers in the staff room.								
		The teachers got triple choc chip delights.								
	С	He gave the rest to his next door neighbour Mr Wallis. Mr Wallis got triple choc chip delights.								



Introducing fractions – comparing and ordering fractions



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Introducing fractions – comparing and ordering fractions

Each player will need: • to cut out the fraction cards below

This is a game for 2 players. Choose one player to be the dealer.

Each player cuts out their own set of fraction cards.

The dealer shuffles the cards well and places them in one stack in the centre.

Player 1 draws 3 cards, one at a time and places them from left to right in each box, from smallest to largest. If they are in the correct order, the player scores 5 points. If they are not in the correct order, they do not score any points. Player 2 then has their turn.

The winner is the player with the largest score after 3 turns each.





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Introducing fractions – comparing and ordering fractions



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Fraction bingo

apply



This is a game for 3 to 4 players. Each player will need the fraction board below and some counters. You will also need to cut out one copy of the flash cards on page 12.





Choose one player to be the caller. The rest of the players fill their fraction boards with any of the following fractions:

 $\frac{1}{2}, \ \frac{1}{4}, \ \frac{2}{4}, \ \frac{3}{4}, \ \frac{4}{4}, \ \frac{1}{8}, \ \frac{2}{8}, \ \frac{3}{8}, \ \frac{4}{8}, \ \frac{5}{8}, \ \frac{6}{8}, \ \frac{7}{8}, \ \frac{8}{8}$

The caller chooses a flash card from the pile and shows the players.

If a player has the fraction, they place a counter over it.

The winner is the first player to cover 3 in a row.

Swap roles and play again until everyone in the group has been the caller.

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