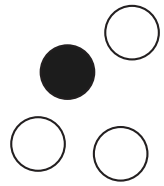
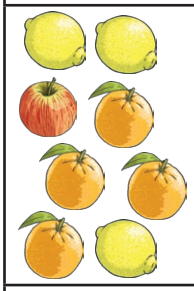
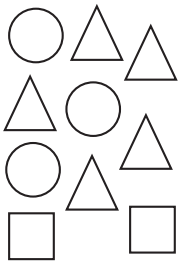
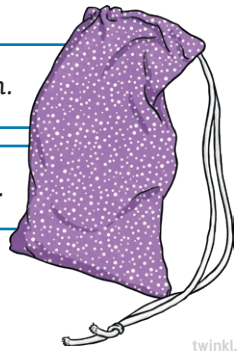
1) Complete this table comparing ratios and fractions.

Objects	Ratio	Fraction
	The ratio of black counters to white counters: 1:3	Black = $\frac{1}{4}$ White =
	The ratio of apples to bananas: 1:2	Apple = Bananas =
	For every 2 circles, there are ____ triangles.	Circles = Triangles =
	The ratio of apples to lemons to oranges: 1:3:4	Apple = Lemons = Oranges =
	For every 2 squares, there are _____ circles and _____ triangles.	Squares = Circles = Triangles =

2) In this bag, there are 3 green marbles for every 4 blue marbles. Which statement is true? Prove it!

A $\frac{3}{4}$ of the marbles are green.

B $\frac{3}{7}$ of the marbles are green.



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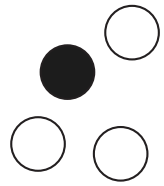	The ratio of black counters to white counters: 1:3	Black = $\frac{1}{4}$ White =
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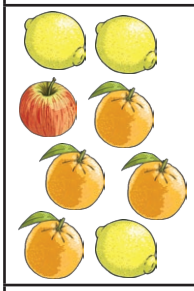
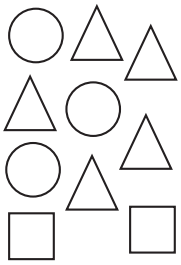
	The ratio of apples to lemons to oranges: 1:3:4	Apple = Lemons = Oranges =
	For every 2 squares, there are _____ circles and _____ triangles.	Squares = Circles = Triangles =

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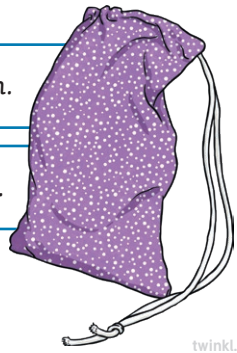


1) $\frac{1}{4}$ of the marbles in a bag are red. The rest of the marbles are blue.

Ben

For every 1 red marble there will be 4 blue marbles.

Alice

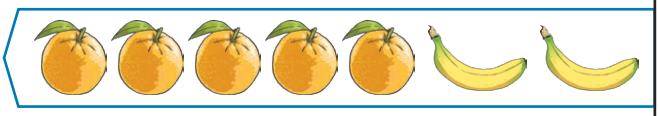
For every 1 red marble there will be 3 blue marbles.

a) Who is correct? Explain how you know.

b) Draw a bar model to help prove your answer.

c) What is the ratio of red marbles to blue marbles?

The statements in questions 2 and 3 describe fruit using ratio and fraction language. Which statements are true and which are false? Correct the statements which are false.



2) **a)** Bananas are $\frac{2}{7}$ of the fruit.

b) For every 2 bananas, there are 7 oranges.

c) The ratio of bananas to oranges: 2:7.

One of the oranges is taken away from the collection of fruit and eaten.

3) **a)** For every 1 banana, there are now 2 oranges.

b) $\frac{1}{2}$ of the fruit are now bananas.

c) The ratio of bananas to oranges: 1:2.

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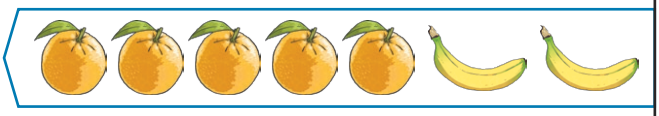

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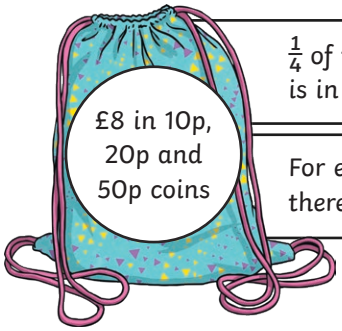
1) Look at the ratio and fraction statements. Find the total value of 10p, 20p and 50p coins contained in this bag. After, find the quantity of each type of coin.

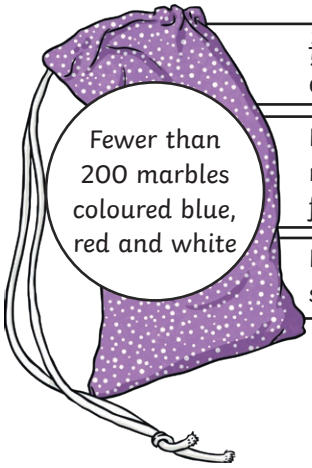


$\frac{1}{4}$ of the value of the bag is in 10p coins.

For every one 20p coin, there are two 50p coins.

Coin	Total Value	Quantity of Coins
10p		
20p		
50p		

2) Look at the ratio and fraction statements for this bag of marbles. Find the possible number of each different colour marble in the bag.



$\frac{1}{5}$ of the marbles are blue.

For every three red marbles, there are five white marbles.

Find three different sets of answers.

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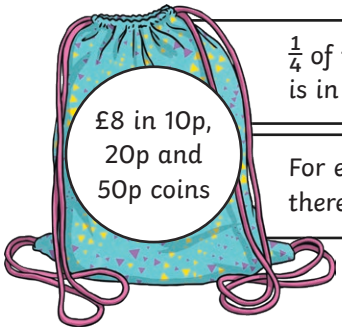

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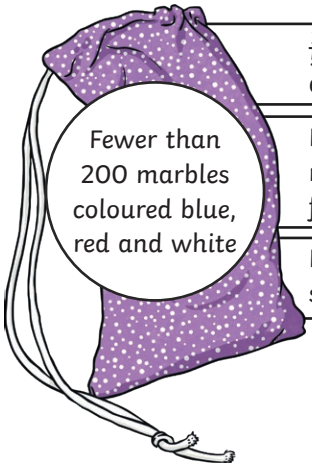

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