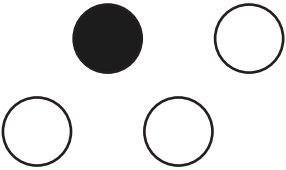
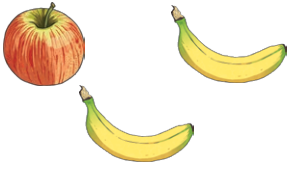
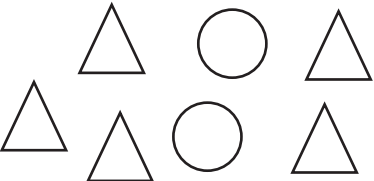
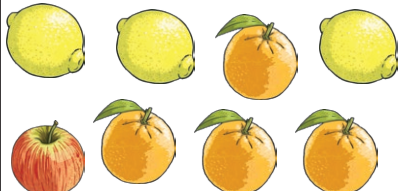



1) Complete this table comparing ratios and fractions.



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.



- 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.

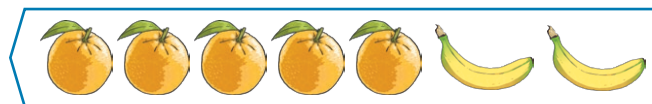


- a) Who is correct? Explain how you know.

- 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. True ☐ False ☐

- b) For every 2 bananas, there are 7 oranges. True ☐ False ☐

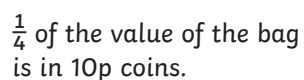
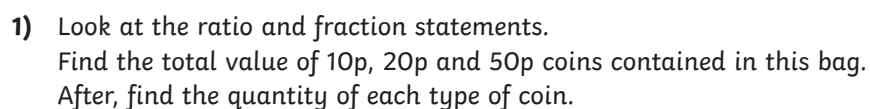
- c) The ratio of bananas to oranges: 2:7. True ☐ False ☐

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. True ☐ False ☐

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

- c) The ratio of bananas to oranges: 1:2. True ☐ False ☐



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

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

[illegible]

- 
- Fewer than 200 marbles coloured blue, red and white

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

Fewer than
200 marbles
coloured blue,
red and white

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

Find three different sets of answers.

	Answer 1	Answer 2	Answer 3
Blue marbles			
Red marbles			
White marbles			
Total marbles			

[illegible]