

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!

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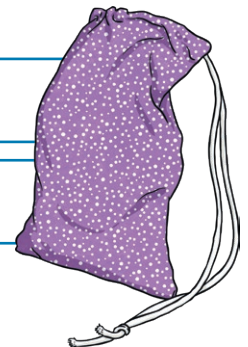
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**A**  $\frac{3}{4}$  of the marbles are green.

**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.



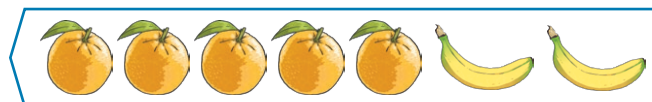
a) Who is correct? Explain how you know.

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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

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

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

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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

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

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

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