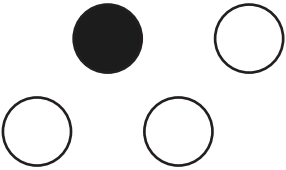
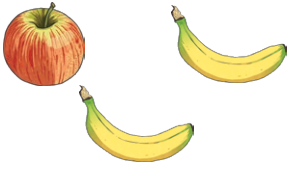
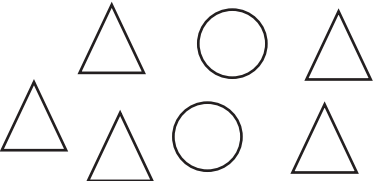
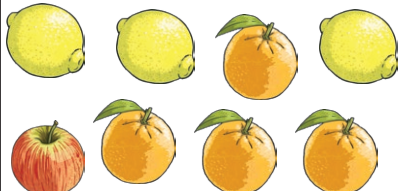


1) Complete this table comparing ratios and fractions.



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



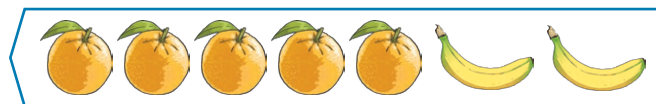
- a) Who is correct? Explain how you know.

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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 ☐

---

- 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 ☐

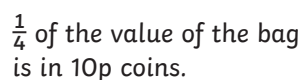
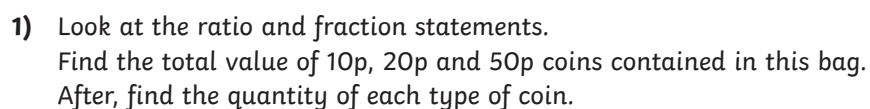
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- b)  $\frac{1}{2}$  of the fruit are now bananas. True ☐ False ☐

---

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

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

[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.

[illegible]