

Homework/Extension

Step 1: Using Ratio Language

National Curriculum Objectives:

Mathematics Year 6: (6R1) [Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the statement to the correct representation, comparing 2 sets of objects in a linear arrangement in a patterned sequence.

Expected Match the statement to the correct representation, comparing 2 sets of objects in a patterned sequence or with objects grouped together.

Greater Depth Match the statement to the correct representation, comparing 3 sets of objects which are out of sequence.

Questions 2, 5 and 8 (Varied Fluency)

Developing Cross out the surplus objects to make the given statements true, comparing 2 sets of objects in a linear arrangement in a patterned sequence.

Expected Cross out the surplus objects to make the given statements true, comparing 3 sets of objects in a linear arrangement with objects grouped together. Using knowledge of multiples to understand the relationships between the sets of objects and simplify ratio statements.

Greater Depth Cross out the surplus objects to make the given statements true, with 3 sets of objects arranged randomly. Using knowledge of multiples to understand the relationships between the sets of objects and simplify ratio statements.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Identify the number of shapes hidden by using knowledge of multiples to understand the relationships between 2 sets of objects.

Expected Identify the number of shapes hidden by using knowledge of multiples to understand the relationships between 3 sets of objects.

Greater Depth Identify the number of two different shapes hidden by using knowledge of multiples to understand the relationships between 3 sets of objects.

More [Year 6 Ratio](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Using Ratio Language

1. Match the statements with the correct representation.

A. For every square, there are 2 circles.



B. For every 2 squares, there are 2 circles.



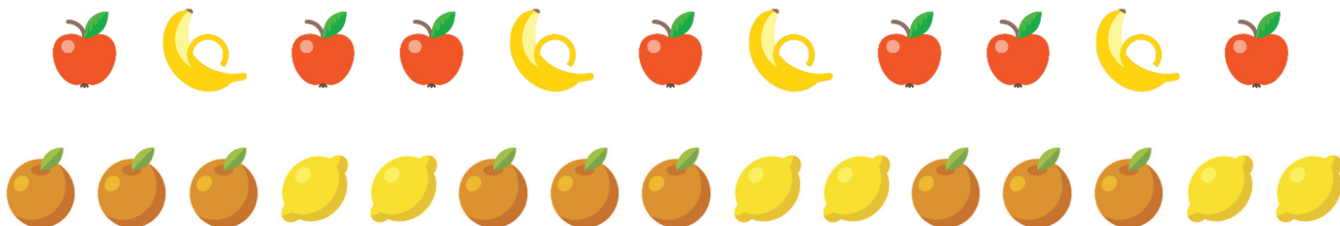
C. There are 3 circles for every square.



VF
HW/Ext

2. Cross out the extra fruit below so that both sentences make sense.

- For every banana, there is 1 apple.
- For every lemon, there are 3 oranges.



VF
HW/Ext

3. Gareth has the selection of shapes below.



He has hidden some squares in a bag.

He says,



There are 4 squares for every circle.



How many squares are in the bag? Explain how you know.



RPS
HW/Ext

Using Ratio Language

4. Match the statements with the correct representation.

A. For every 3 squares, there are 2 circles.



B. For every 2 squares, there are 3 circles.



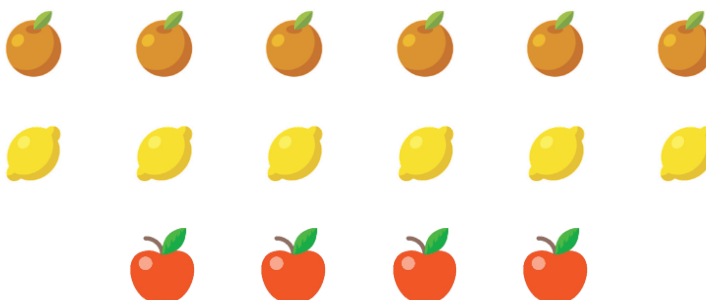
C. There are 4 circles for every square.



VF
HW/Ext

5. Cross out the extra fruit below so that all 3 sentences make sense.

- For every apple, there are 3 oranges.
- For every 2 lemons, there is 1 apple.
- For every 3 oranges, there are 2 lemons.



VF
HW/Ext

6. Matilda has the selection of shapes below.



She has hidden some squares in a bag.

She says,



There are two squares for every circle, and two triangles for every square.



How many squares are in the bag? Explain how you know.



RPS
HW/Ext

Using Ratio Language

7. Match the statements with the correct representation.

A. For every 2 squares, there is 1 circle.
For every circle, there is 1 triangle.



B. For every 3 triangles, there is 1 square.
For every square, there are 2 circles.



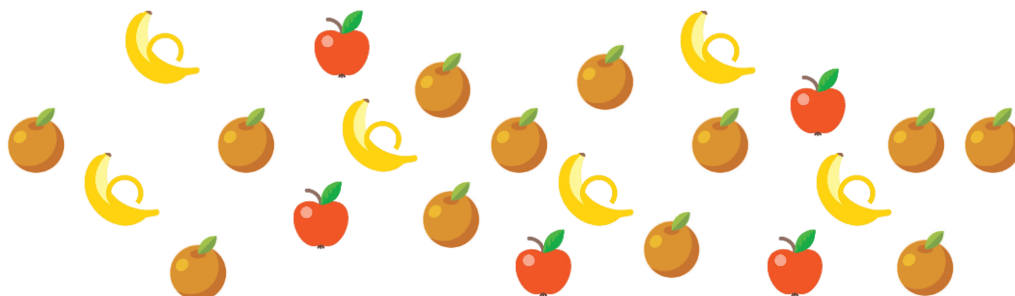
C. For every 3 squares, there are 2 circles.
For every triangle, there are 2 circles.



VF
HW/Ext

8. Cross out the extra fruit below so that all 3 sentences make sense.

- For every banana, there are 3 oranges.
- For every apple, there are 2 bananas.
- For every 6 oranges, there is 1 apple.



VF
HW/Ext

9. Aiden has the selection of shapes below.



He has hidden some triangles and circles in a bag.

He says,



There are 2 triangles for every square and 2 circles for every triangle.



How many triangles and circles are in the bag? Explain how you know.



RPS
HW/Ext

Homework/Extension Using Ratio Language

Developing

1. A. 2; B. 1; C. 3
2. Cross out 3 apples; cross out 3 lemons.
3. There are 20 squares in the bag because there are 5 circles. $5 \times 4 = 20$.

Expected

4. A. 2; B. 3; C. 1
5. Cross out 2 apples and 2 lemons.
6. There are 4 squares in the bag because there are double the number of circles, and half the number of triangles.

Greater Depth

7. A. 3; B. 1; C. 2
8. Cross out 3 apples and 2 bananas.
9. There are 4 triangles and 13 circles in the bag. There should be 8 triangles and 16 circles in total because there are double the number of triangles to squares, and double the number of circles to triangles.