Varied Fluency
Step 2: Ratio And Fractions

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
Mathematics Year 6: (6R4) Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Differentiation:

Developing Questions to support relating ratio and fractions. Comparing 2 groups of objects, organised in a linear pattern or grouped together.
Expected Questions to support relating ratio and fractions. Comparing 2 groups of objects out of two or three groups, organised in a linear pattern or grouped together.
Greater Depth Questions to support relating ratio and fractions. Comparing 3 groups of objects which are arranged randomly.

More Year 6 Ratio resources.

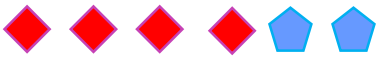
Did you like this resource? Don't forget to review it on our website.

Ratio And Fractions

Ratio And Fractions

1a. Match the fraction of squares to the correct set of objects.

$\frac{4}{6}$ A. 

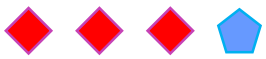
$\frac{3}{6}$ B. 

$\frac{2}{5}$ C. 

D VF

1b. Match the fraction of pentagons to the correct set of objects.

$\frac{2}{5}$ A. 

$\frac{4}{6}$ B. 

$\frac{1}{4}$ C. 

D VF

2a. True or false? If there are 2 oranges for every 4 apples, $\frac{4}{6}$ of the fruit are apples.

D VF

2b. True or false? If there are 3 pears for every 2 grapes, $\frac{3}{5}$ of the fruit are grapes.

D VF

3a. Complete the sentence below if $\frac{3}{5}$ are pentagons and $\frac{2}{5}$ are circles.

There are ____ pentagons for every ____ circles.

D VF

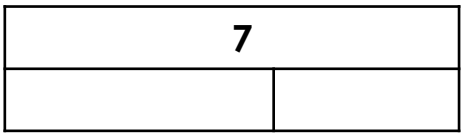
3b. Complete the sentence below if $\frac{4}{6}$ are circles and $\frac{2}{6}$ are squares.

There are ____ circles for every ____ squares.

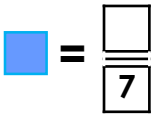
D VF

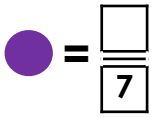
4a. Use the statement below to complete the bar model.

There are 4 squares for every 3 circles.



Write a fraction showing each quantity.

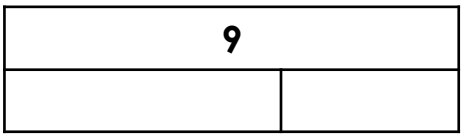




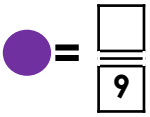
D VF

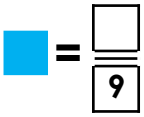
4b. Use the statement below to complete the bar model.

There are 6 circles for every 3 squares.



Write a fraction showing each quantity.





D VF

5a. Match the fraction of triangles to the correct set of objects.

$\frac{3}{7}$ A. 

$\frac{7}{10}$ B. 

$\frac{2}{6}$ C. 

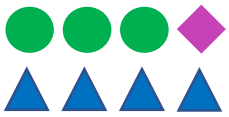
VF

Ratio And Fractions

5b. Match the fraction of circles to the correct set of objects.

$\frac{3}{8}$ A. 

$\frac{4}{7}$ B. 

$\frac{2}{5}$ C. 

VF

6a. True or false?

If there are 2 oranges for every 3 apples, $\frac{3}{5}$ of the fruit are oranges.

VF

6b. True or false?

If there are 4 bananas for every 2 grapes, $\frac{2}{5}$ of the fruit are grapes.

VF

7a. Complete the sentence below if $\frac{2}{7}$ are pentagons and $\frac{4}{7}$ are squares.

There are ____squares for every ____ pentagons.

VF

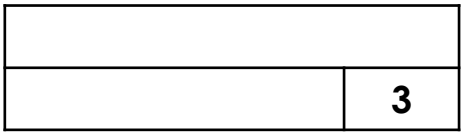
7b. Complete the sentence below if $\frac{3}{8}$ are circles and $\frac{2}{8}$ are pentagons.

There are ____circles for every ____ pentagons.

VF

8a. Use the statement below to complete the bar model.

There are 3 squares for every 5 circles.

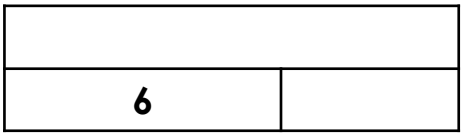


Write a fraction showing each quantity.

VF

8b. Use the statement below to complete the bar model.

There are 4 circles for every 6 squares.



Write a fraction showing each quantity.

VF

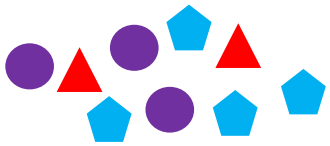
Ratio And Fractions

9a. Match the fraction of circles to the correct set of objects.

$\frac{2}{3}$

$\frac{1}{3}$

$\frac{1}{4}$

A. 

B. 

C. 

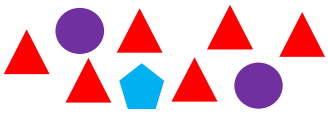
GD VF

9b. Match the fraction of triangles to the correct set of objects.

$\frac{1}{2}$

$\frac{1}{3}$

$\frac{2}{3}$

A. 

B. 

C. 

GD VF

10a. True or false?

If there are 6 pears and 4 apples for every 5 lemons, $\frac{2}{5}$ of the fruit are pears.

GD VF

10b. True or false?

If there are 10 oranges and 6 melons for every 2 plums, $\frac{1}{3}$ of the fruit are plums.

GD VF

11a. Complete the sentence below if $\frac{2}{11}$ are pentagons, $\frac{\square}{\square}$ are squares and $\frac{3}{11}$ are circles.

There are ____ pentagons and ____ circles for every ____ squares.

GD  VF

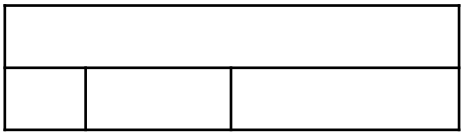
11b. Complete the sentence below if $\frac{4}{13}$ are circles, $\frac{\square}{\square}$ are pentagons and $\frac{4}{13}$ are triangles.

There are ____ triangles and ____ circles for every ____ pentagons.

GD  VF

12a. Use the statement below to complete the bar model.

There are 6 squares and 4 triangles for every 2 circles.



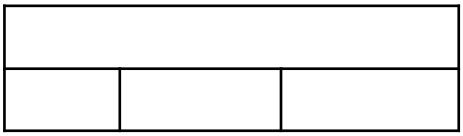
Show each fraction in its simplest form.

 = $\frac{\square}{\square}$  = $\frac{\square}{\square}$  = $\frac{\square}{\square}$

GD VF

12b. Use the statement below to complete the bar model.

There are 8 circles for every 5 squares and 7 triangles.



Show each fraction in its simplest form.

 = $\frac{\square}{\square}$  = $\frac{\square}{\square}$  = $\frac{\square}{\square}$

GD

Varied Fluency
Ratio And Fractions

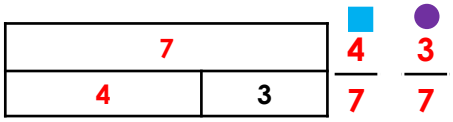
Developing

1a. $\frac{4}{6}$ = B; $\frac{3}{6}$ = C; $\frac{2}{5}$ = A

2a. True

3a. There are 3 pentagons for every 2 circles.

4a.



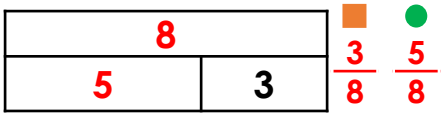
Expected

5a. $\frac{3}{7}$ = B; $\frac{7}{10}$ = C; $\frac{2}{6}$ = A

6a. False, the fraction of oranges is $\frac{2}{5}$.

7a. There are 4 squares for every 2 pentagons; alternatively, there are 2 squares for every pentagon.

8a.



Greater Depth

9a. $\frac{2}{3}$ = C; $\frac{1}{3}$ = A; $\frac{1}{4}$ = B

10a. True

11a. $\frac{6}{11}$ are squaress. There are 2 pentagons and 3 circles for every 6 squares.

12a.

Varied Fluency
Ratio And Fractions

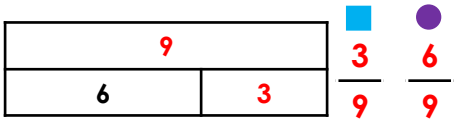
Developing

1b. $\frac{2}{5}$ = C; $\frac{4}{6}$ = A; $\frac{1}{4}$ = B

2b. False, the fraction of grapes is $\frac{2}{5}$.

3b. There are 4 circles for every 2 squares.

4b.



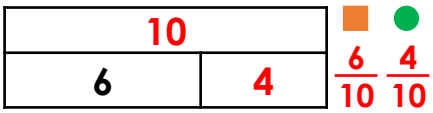
Expected

5b. $\frac{3}{8}$ = C; $\frac{4}{7}$ = A; $\frac{2}{5}$ = B

6b. False, the fraction of grapes is $\frac{2}{6}$.

7b. There are 3 circles for every 2 pentagons.

8b.



Greater Depth

9b. $\frac{1}{2}$ = B; $\frac{1}{3}$ = C; $\frac{2}{3}$ = A

10b. False, the fraction of plums is $\frac{1}{9}$.

11b. $\frac{5}{13}$ are pentagons. There are 4 triangles and 4 circles for every 5 pentagons.

12b.