

Varied Fluency

Step 3: Introducing the Ratio Symbol

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:

Developing Questions to support linking the ratio symbol : with 'for every...there are...' language. Comparing 2 sets of objects in a linear arrangement, in a patterned sequence.

Expected Questions to support linking the ratio symbol : with 'for every...there are...' language, and linking ratio and fractions knowledge. Comparing up to 3 sets of objects in a linear arrangement, in a patterned sequence or objects grouped together.

Greater Depth Questions to support linking the ratio symbol : with 'for every...there are...' language, and linking ratio and fractions knowledge. Comparing 3 sets of objects, arranged randomly out of sequence.

More [Year 6 Ratio](#) resources.

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

Introducing the Ratio Symbol

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1a. True or false? The ratio of cars to buses is 3:7.



VF

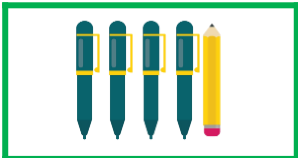
1b. True or false? The ratio of carrots to sweetcorn is 1:5.



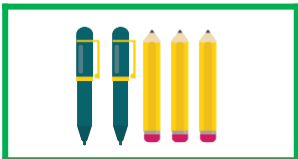
VF

2a. Match the cards to the correct image.

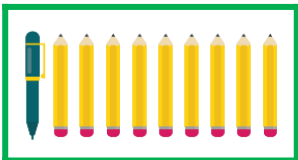
A. 1:9 pens to pencils



B. 4:1 pens to pencils



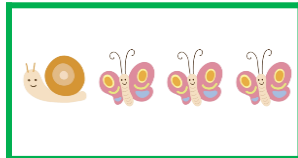
C. 3:2 pencils to pens



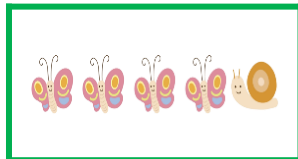
VF

2b. Match the cards to the correct image.

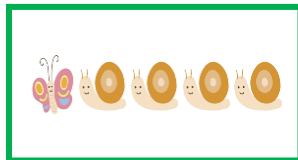
A. 4:1 butterflies to snails



B. 1:4 butterflies to snails



C. 1:3 snails to butterflies



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3a. Write a statement to describe the ratio of 4:1 shown below.



VF

3b. Write a statement to describe the ratio of 3:2 shown below.



VF

4a. Circle the odd one out by matching the ratios to the description.



1:5

striped sock to spotty sock

5:1

spotty sock to striped sock

5:2



VF

4b. Circle the odd one out by matching the ratios to the description.



2:3

watches to necklaces

3:1

necklaces to watches

3:2



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5a. True or false? The ratio of bananas to apples is 4:3.



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5b. True or false? The ratio of snails to butterflies is 2:4.



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6a. Match the statements that mean the same thing.

A. 1:2 red counters to blue counters

1. There are twice as many blue counters as red counters.

B. 3:2 red counters to blue counters

2. For every 2 blue counters, there are 3 red counters.

C. 2:3 red counters to blue counters

3. For every 2 red counters, there are 3 blue counters.



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6b. Match the statements that mean the same thing.

A. 3:7 pens to pencils

1. There are four times as many pens as pencils.

B. 7:3 pens to pencils

2. For every 7 pens, there are 3 pencils.

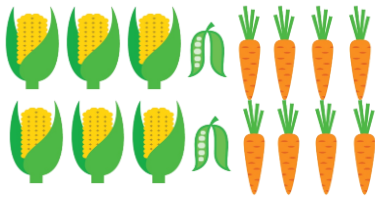
C. 1:4 pencils to pens

3. For every 3 pens, there are 7 pencils.



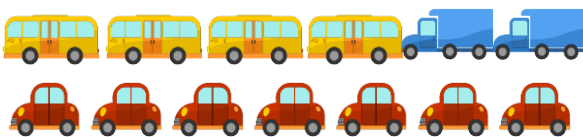
VF

7a. Write a statement to describe the ratio of 6:8 shown below.



VF

7b. Write a statement to describe the ratio of 2:4 shown below.



VF

8a. Circle the odd one out by matching the ratios to the description.



1:3

rings to necklaces to watches

1:3:2

3:2:1

rings to necklaces



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8b. Circle the odd one out by matching the ratios to the description.



3:4:1

spotty to striped

3:4

4:3:1

striped to spotty to plain



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9a. True or false? The ratio of rings to watches to necklaces is 2:1:3.



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9b. True or false? The ratio of cars to buses to lorries is 3:2:1.



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10a. Match the statements that mean the same thing.

A. 1:3:5 apples to oranges to pears

1. For every apple, there are 2 oranges and 4 pears.

B. 5:3:1 apples to pears to oranges

2. For every apple, there are 5 pears and 3 oranges.

C. 1:2:4 apples to oranges to pears

3. For every orange, there are 5 apples and 3 pears.



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10b. Match the statements that mean the same thing.

A. 3:5:1 teas to coffees to hot chocolates

1. For every tea, there are 5 hot chocolates and 4 coffees.

B. 1:4:5 teas to coffees to hot chocolates

2. For every tea, there are 5 hot chocolates and 3 coffees.

C. 5:1:3 hot chocolates to teas to coffees

3. For every hot chocolate, there are 3 teas and 5 coffees.



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11a. Write a statement to describe the ratio of 1:3:4 shown below.



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11b. Write a statement to describe the ratio of 4:1:3 shown below.



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12a. Circle the odd one out by matching the ratios to the description.



2:2:5

corn to peas to carrots

2:5

corn to carrots

5:2:2



VF

12b. Circle the odd one out by matching the ratios to the description.



3:2:1

cars to buses

2:3:1

buses to lorries to cars

1:3



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Developing

- 1a. False; it is 3:4.
- 2a. A: picture 3; B: picture 1; C: picture 2.
- 3a. There are 4 bees for every 1 ladybird.
- 4a. 5:2 is the odd one out.

Expected

- 5a. False; it is 3:4.
- 6a. A: 1; B: 2; C: 3.
- 7a. There are 6 corn for every 8 carrots.
- 8a. 3:2:1 is the odd one out.

Greater Depth

- 9a. False; it is 1:2:3.
- 10a. A: 2; B: 3; C: 1.
- 11a. For every plain sock, there are 3 spotty and 4 striped.
- 12a. 5:2:2 is the odd one out.

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Developing

- 1b. True
- 2b. A: picture 2; B: picture 3; C: picture 1.
- 3b. There are 3 apples for every 2 bananas.
- 4b. 3:1 is the odd one out.

Expected

- 5b. False; it is 4:2.
- 6b. A: 3; B: 2; C: 1.
- 7b. There are 2 lorries for every 4 buses.
- 8b. 3:4:1 is the odd one out.

Greater Depth

- 9b. True
- 10b. A: 3; B: 1; C: 2.
- 11b. For every 4 gorillas, there is one giraffe and 3 elephants.
- 12b. 2:3:1 is the odd one out.