

# Writing and Simplifying Ratio

## November 2024 Paper 1

9 (d) Write the ratio 5:4 in the form  $n:1$

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(1)

## November 2024 Paper 2

- 9 There are 90 red counters and 150 yellow counters in a bag.

Write down the ratio of the number of red counters to the number of yellow counters.  
Give your ratio in its simplest form.

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**(Total for Question 9 is 2 marks)**

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## June 2020 Paper 1

- 9 (a) A bag contains red counters and blue counters only.

$$\text{number of red counters} : \text{number of blue counters} = 3 : 4$$

Write down the fraction of the counters that are red.

.....  
(1)

- (b) Write the ratio 12 : 30 in the form  $1 : n$

.....  
(2)

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**(Total for Question 9 is 3 marks)**

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## June 2024 Paper 1

**10** There are 24 cows and 36 sheep on a farm.

Write as a ratio the number of cows to the number of sheep.  
Give your ratio in its simplest form.

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**(Total for Question 10 is 2 marks)**

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## November 2023 Paper 2

**10** There are 24 red counters and 40 blue counters in a bag.

Write down the ratio of the number of red counters to the number of blue counters in the bag.

Give your ratio in its simplest form.

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**(Total for Question 10 is 2 marks)**

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## November 2022 Paper 3

**12** Amol, Gemma and Harry each have a number of sweets.

The number of sweets that Gemma has is 6 times the number of sweets that Amol has.

The number of sweets that Harry has is half the number of sweets that Gemma has.

Write down the ratio

the number of sweets  
that Amol has                      :    the number of sweets  
that Gemma has                      :    the number of sweets  
that Harry has

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.....  
**(Total for Question 12 is 2 marks)**

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## November 2021 Paper 1

**12** There are two drama groups in a school.

In one group there are 36 boys and 48 girls.

In the other group,  $\frac{3}{7}$  of the students are boys and the rest of the students are girls.

Ann says,

“The ratio of the number of boys to the number of girls is the same for both groups.”

Is Ann correct?

You must show how you get your answer.

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**(Total for Question 12 is 3 marks)**

## November 2021 Paper 3

13 In the Northern hemisphere the ratio of the area of land to the area of water is 2:3

(a) Work out what percentage of the area of the Northern hemisphere is land.

.....%  
(2)

20% of the area of the Southern hemisphere is land.

(b) Work out the ratio of the area of land to the area of water in the Southern hemisphere.

.....  
(2)

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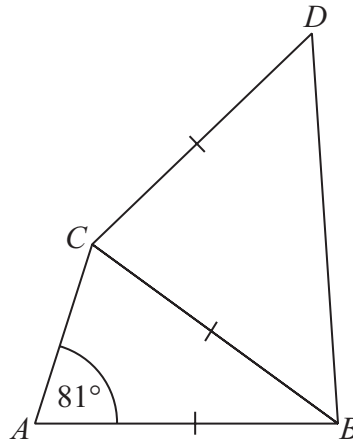
**(Total for Question 13 is 4 marks)**

## June 2020 Paper 2

17 Scott also buys  
1260 apples  
280 bananas

- (b) Write down the ratio of the number of apples that Scott buys to the number of bananas that he buys.  
Give your ratio in its simplest form.

20  $ABC$  and  $BCD$  are isosceles triangles.



$$AB = BC = CD$$

$$\text{Angle } CAB = 81^\circ$$

$$\text{Angle } BCD = 4 \times \text{angle } ABC$$

Find

the size of angle  $ABC$  : the size of angle  $BCD$

Give your answer in the form  $1 : n$

You must show all your working.

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**(Total for Question 20 is 5 marks)**

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