1 The ratio of dogs to cats is 5:3
The ratio of fish to dogs is 6:1

Find the ratio of cats to fish.
Give your answer in its simplest form.

(2 marks)

2 Given that $a:b = 4:5$ and $b:c = 3:2$

Find the ratio $a:b:c$
Give your answer in its simplest form.

(2 marks)

3 Alfie, Bertie and Charlie share £66.
The amount Alfie and Bertie get is in the ratio 9:5
The amount Bertie and Charlie get is in the ratio 2:1

How much does Alfie get?

(3 marks)

4 Dylan, Eli and Fabian share some sweets.
The amount of sweets Dylan gets to the amount of sweets Eli gets is in the ratio 7:3
The amount Dylan gets to the amount Fabian gets is in the ratio 4:5

Given Fabian gets 21 more sweets than Dylan.

Work out how many sweets Eli gets.

(3 marks)

5 Given that $a:b = 3:7$ and $a:c = 4:3$

Find the ratio $a:b:c$
Give your answer in its simplest form.

(2 marks)

6 Given that $a:c = 1:6$ and $b:c = 2:5$

Find the ratio $a:b:c$
Give your answer in its simplest form.

(2 marks)

7 There are red sweets, blue sweets and green sweets in a bag.
The ratio of red sweets to sweets that are not red is 2:3
The ratio of green sweets to sweets that are not green is 6:19

Work out the ratio of red sweets to blue sweets to green sweets.

(3 marks)

8 A football team plays some games in a season. Each game was a win, a draw or a loss.

The ratio of the games they won to the games they did not win was 9:7
The ratio of games they lost to games they did not lose was 1:7.

Given the team played less than 50 games, work out the highest amount of games they could have won.

(2 marks)

9 The points A, B, C and D lie in order on a straight line.

$AB:BD = 2:5$ and $AC:CD = 4:7$

Find $AB:BC:CD$

(3 marks)

10 The points A, B, C and D lie in order on a straight line.

$AB:BD = 3:5$ and $AC:CD = 5:6$

Find $AB:BC:CD$

(3 marks)

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11 Andy and Bruce share some sweets in the ratio 9:4.
Andy gets *A* sweets
Bruce gets *B* sweets

Carla and David share the same amount of sweets as Andy and Bruce.
They share their sweets in the ratio 5:2.

Carla gets *C* sweets
David gets *D* sweets

Find *A:B:C:D*

(3 marks)

12 *A* and *B* are in the ratio 5:1
C and *D* are in the ratio 2:3

Given: $A + B = 2(C + D)$

Find *A:B:C:D*

(3 marks)

13 Glen and Harper share some money in the ratio 5:2.
Glen gets £*G*
Harper gets £*H*

India and Jade share the same amount of money as Glen and Harper.
They share their money in the ratio 4:7.

India gets £*I*
Jade gets £*J*

Find *G:H:I:J*

(3 marks)

14 *A* and *B* are in the ratio 4:3
C and *D* are in the ratio 1:5

Given: $3(A + B) = C + D$

Find *A:B:C:D*

(3 marks)

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