



Ratio Problem

Coins

- Lyn and John shared coins in the ratio 5:3
- Lyn gave John 6 coins.
- Now they have the same number of coins.
 - How many did they each start with?



Solution:

- If she gave John 6 so that they had the same number, there must have been a difference between them of 12.

Lyn	John
5	3
10	6
15	9
20	12
25	15
30	18 (difference of 12)

Stamps

- Lyn and John had some stamps which they shared out in the ratio 7:5.
- Then Lyn gave John 12 stamps.
 - Now they each had the same number of stamps, so how many did Lyn have to start with?

Solution:

- If they have a ratio of 7:5 there is a difference between them of 2.
- For Lyn to give John 12 and have the same there must be a difference of 24.
- Scale up!
- $24 \div 2 = 12$ so they must have to scale up 12 times.
- Therefore Lyn scales up 7 by 12 which equals **84**.
- John scales up 5 by 12 which equals **60**.
- **Answer: Lyn had 84 and John had 60.**