

Y8 – Autumn – Block 1 – Step 6 – Express ratios in their simplest integer form

Question	Answer
1	a) Any three ratios equivalent to 2 : 3 e.g. 6 : 9, 4 : 6, 2 : 3 b) Discussion about the ratios being equivalent and how they can be seen in the image. c) 2 : 3 as their only common factor is 1
2	2 : 5
3	a) For every 18 yellow squares, there are 6 white squares. For every 9 yellow squares, there are 3 white squares. For every 6 yellow squares, there are 2 white squares. For every 3 yellow squares, there is 1 white square. b) The last statement. c) 3 : 1
4	For the left hand diagram we can divide each side of the ratio by the highest common factor which is 3 For the right hand diagram we can factorise 15 and 18 to identify a common factor of 3
5	a) 3 : 1 b) 3 : 2 c) 1 : 4 d) 6 : 7 e) 2 : 1 f) 3 : 5 : 2
6	7 : 8 8 : 7
7	13 : 15 – Mo has added 10 to each number in the ratio. 7 : 9 – Mo has added 4 to each number in the ratio. 5 : 3 – Mo has reversed the numbers in the ratio
8	Jack will need 24 blue cars.
9	a) 5 : 1 b) 20 : 9 c) 5 : 9 d) 1 : 2 e) 10 : 3 f) 200 : 130 : 1 g) 3 : 5