

# Simplifying Ratios

1. Simplify each ratio as far as possible:

- (a) 2 : 8      (b) 3 : 15      (c) 10 : 20      (d) 5 : 45      (e) 6 : 48      (f) 8 : 24  
 (g) 10 : 12      (h) 8 : 14      (i) 6 : 16      (j) 20 : 24      (k) 18 : 36      (l) 32 : 40  
 (m) 15 : 60      (n) 21 : 33      (o) 14 : 24      (p) 40 : 100      (q) 33 : 55      (r) 72 : 81


2. Multiply each ratio by 10 to remove the decimal, then simplify.

- (a) 0.5 : 1      (b) 0.3 : 6      (c) 5 : 0.5      (d) 0.1 : 2      (e) 3 : 0.6      (f) 0.4 : 12  
 (g) 12 : 0.6      (h) 45 : 0.5      (i) 39 : 0.3      (j) 0.3 : 18      (k) 0.8 : 6.4      (l) 0.5 : 2.5  
 (m) 1.6 : 0.4      (n) 3.2 : 1.4      (o) 2.3 : 4.6      (p) 0.3 : 0.9      (q) 1.7 : 34      (r) 0.9 : 4.5

3. The ratio of boys to girls in a class is 14 : 16. Write this in simplest form.

4. At a football match the ratio of female supporter to male supporters is 16 : 2.  
Write this ratio in simplest form.



5.  To make purple paint red and blue paint are mixed in the ratio 0.6 : 1.4.  
Write this ratio in simplest form.

6. Simplify the following ratios by first multiplying by 10, 100, 1000, .....

- (a) 0.1 : 3.5      (b) 0.02 : 0.4      (c) 0.35 : 0.05      (d) 3.2 : 0.04  
 (e) 6.8 : 1.2      (f) 0.03 : 0.002      (g) 1.6 : 0.08      (h) 12.5 : 0.5  
 (i) 6.6 : 0.02      (k) 1.3 : 0.65      (l) 3.6 : 0.6      (m) 0.08 : 8