**Ratio**

**T1: Give ratios in the form 1:n or n:1**

Simplify the following ratios to 1:n

*Worked Example (Write this down for each question)*

$$5:8 \rightarrow 5\div5 : 8\div5 \rightarrow 1:1.6$$

a) 12:6
b) 5:9
c) 8:10
d) 4:3
e) 3:4
f) 5:3

g) 15:12
h) 12:15
i) 20:35
j) 28:7
k) 35:40

*Worked Example*

There are blue and yellow counters put into a bag.

40% of the counters are blue.

Write the contents of the bag as a ratio in the form 1:n.

**40 + 60 = 100**

**40:60 → 40÷40 : 60 ÷ 40 → 1:1.5**

For each of the questions below, the percentage of blue counters is given.  Calculate the ratio of blue to yellow counters in the form 1:n.  *Copy the bold part of the example above for each answer.*

l) 25%
m) 35%
n) 62%
o) 15%
p) 60%

q) 70%
r) 75%
s) 25%
t) 44%
u) 52%

**Worked Example**

$\frac{3}{5}$ of the people on a train are women.  Write the ratio of the men : women on the train in the form 1:n.

| Men | Women |
|-----|-------|
| $\frac{2}{5}$ | $\frac{3}{5}$ |

$$\frac{2}{5} : \frac{3}{5} \rightarrow 2:3 \rightarrow 2 \div 2 : 3 \div 2 \rightarrow 1:1.5$$

For each of the questions below, the fraction of women is given.  Write the ratio of men to women in the form 1:n. *Copy the bold part of the example above for each answer.*

v) $\frac{2}{3}$   w) $\frac{9}{20}$   x) $\frac{6}{10}$   y) $\frac{8}{12}$   z) $\frac{24}{50}$