



1. Copy each ratio and simplify as far as possible :-

- (a) 5 : 10 (b) 12 : 36 (c) 4 : 20 (d) 5 : 35
 (e) 27 : 3 (f) 36 : 16 (g) 100 : 8 (h) 240 : 30
 (i) 25 : 625 (j) 12 : 16 : 24 (k) 8 : 40 : 72 (l) 6 : 81 : 333

2. Farmer Ellis uses the table of ratios to feed his chickens using chicken feed and corn.

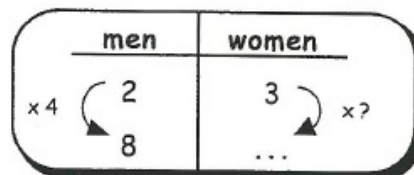
Mix in the ratio	
Strength	Feed : Corn
Weak	10 : 1
Light	7 : 1
Medium	7 : 2
Strong	5 : 3
Very Strong	4 : 5

Which feed strength will he get if he mixes :-

- (a) 70g of feed and 10g of corn ?
 (b) 210g of feed and 60g of corn ?
 (c) 1 kg of feed and 1250g of corn ?
 (d) 600g of corn and 1 kg of feed ?

3. On a small aircraft, the ratio of men to women is 2 : 3.

If there are 8 men on the aircraft, how many women are there ?



4. The ratio of girls to boys in $3C_2$ is 4 : 5.

- (a) If there are 12 girls, how many boys are there ?
 (b) If there are 20 boys, how many girls are there ?

5. Show all your working for each of the following :-

- (a) Share £1500 between Bill and Ben in the ratio 3 : 2.
 (b) Share 360 sweets between May and Matt in the ratio 5 : 7.
 (c) Share 1250 €'s between Tom and Tim in the ratio 7 : 3.
 (d) Share ten thousand pounds between Dan and Fran in the ratio 23 : 27.

6.



The cost of ten calculators is £50.
 How much would it cost for :-

- (a) one calculator (b) nine calculators ?

7. A photocopy machine can produce 300 copies in 2 minutes.

How many copies will the machine make in :-

- (a) 3 minutes (b) 11 minutes
 (c) 30 seconds (d) 20 seconds ?

