## **Fractions and Ratio Worded Problems**

Robbie and Gary share \$675 in the ratio 5: 4. Gary spends  $\frac{5}{6}$  of his money on a new TV. How much does Gary's new TV cost?

Three sisters Delia, Emma and Fajar share £880 in the ratio 2 : 5 : 4. Emma gives  $\frac{2}{5}$  of her money to her mother, and Fajar gives  $\frac{3}{8}$  of her money to her mother. How much money does their mother get in total?

In a year group there are 120 children. The ratio of boys to girls is 5:3. Of the boys,  $\frac{2}{5}$  wear glasses. Of the girls,  $\frac{2}{9}$  wear glasses. What percentage of the students in the year group wear glasses?

In a cutlery drawer, knives, forks and spoons are in the ratio 6:5:3. There are 36 spoons in the drawer. Of the knives, 25% are dirty, and of the forks,  $\frac{5}{12}$  are dirty. What fraction of all the cutlery is dirty?

There are 90 counters in a bag, either red or green or yellow.  $\frac{1}{5}$  of the counters are yellow. The ratio of red counters to green counters is 7:5. Ten red counters are removed from the bag. Find the percentage of counters remaining in the bag that are red.

B: G 75: 45 B: = x75 G: = x45 = 10 = 30 40 x 100 = 33.3% K: F: S

72: 60: 36 25%×72 = 18 43 \frac{1}{12} \times 60 = 25 \quad \frac{168}{168}

R: G: Y 42: 30: 16 -10 red  $\frac{32}{80} \times 100$ 32:30: 18 80 =  $\frac{40\%}{60}$