Level 1 Fraction Problems

Q1. In Suntown there are 3 suburbs, Flats, Riverside and Wests. $\frac{3}{10}$ of the people live in Flats, $\frac{2}{7}$ live in Riverside and the rest in Wests. (a) What fraction live in Wests?

In Flats $\frac{2}{5}$ of the people have a hillside section, in Wests $\frac{1}{6}$ and none in Riverside.

(b) What fraction of the Suntown people have a hillside section?

Q2. An office uses 4 different coloured folders. $\frac{2}{9}$ are red, and $\frac{1}{6}$ of those remaining are blue.

(a) What fraction are neither red nor blue?

(b) If $\frac{3}{7}$ of the others are green, what fraction of all the folders are the fourth colour, yellow?

(c) If there are 18 red folders, how many folders are there altogether in the office?

Q3. In a car yard $\frac{2}{5}$ of the cars are Honda and $\frac{2}{7}$ of the others are Subaru. The rest consist of Toyota and Mazda, $\frac{3}{11}$ of them being Mazda.

(a) What fraction of the cars are Toyota?

$\frac{1}{3}$ of the Subaru, 4 cars, are red.

(b) How many cars are there in the car yard?

Q4. Sally spends $\frac{2}{5}$ of her income on rent and food, and $\frac{1}{8}$ of what is left on power and phone.

Of the remainder she saves $\frac{5}{7}$ and what is left is for entertainment.

(a) What fraction of her income does she spend on entertainment?

(b) If she spends $36$ on power and phone, what is her income?

Q5. Berdo has a large CD collection. $\frac{1}{8}$ are rock and $\frac{1}{3}$ of the others are rap.

Of the rest, $\frac{5}{12}$ are classical and the remainder pop.

(a) What fraction of his collection is pop?

(b) If he has 36 rock CDs, how many CDs has he altogether?

(c) How many rap CDs does he have?

1) a) $\frac{29}{70}$  b) $\frac{397}{2100}$  
2. a) $\frac{35}{54}$  b) $\frac{10}{27}$  c) $81$  
3.a) $\frac{64}{385}$  b) $\frac{3}{20}$  4.a) $\frac{3}{480}$  5.a) $\frac{49}{144}$  b. $288$  c. $84$