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| **Fractions, Percentages and Ratio Worded Problems** |
| **(a)** | **(b)** |
| Elia has 10 hours of free time per week. She spends $\frac{7}{20} $of her free time doing homework. She spends $4 $hours per week watching TV and films. The rest of her free time is split between football and hockey in the ratio $3 : 2$. Find the percentage of her free time Elia spends on football. | Theo receives $£1800$ in wages each month. He spends $\frac{1}{4}$ of his wages on rent. He spends $\frac{5}{12}$ of his wages on bills and food. The amount of money he spends on bills and food is split in the ratio $7 :3$. Find the amount Theo spends on rent and food as a percentage of the total wages he received. |
| **(c)** | **(d)** |
| A school contains $910$ students. The ratio of boys to girls is $4 :3$. $15\%$ of the boys are left-handed and $\frac{2}{15}$ of the girls are left-handed. Find the percentage of students in the school that are left-handed. Give your answer to 1 decimal place. | On a farm there are pigs, cows, sheep and goats. $\frac{2}{9}$ of the animals are pigs and $35\%$ of the animals are cows. The remaining sheep and goats are in the ratio $4 : 3$. If there are $189$ cows on the farm, find the total number of goats and pigs the farm. |