

HOLIDAY HOMEWORK

CHAPTER 9 : RATIOS

DIVIDING A RATIO

1. (a) Divide £60 in the ratio $6 : 5 : 1$.
(b) Divide £108 in the ratio $3 : 4 : 5$.
(c) Divide 30 kg in the ratio $1 : 2 : 3$.
(d) Divide 75 litres in the ratio $12 : 8 : 5$.

2. Simon, Sarah and Matthew are given a total of £300. They share it in the ratio $10 : 11 : 9$. How much does each receive?

3. In a fruit cocktail drink, pineapple juice, orange juice and apple juice are mixed in the ratio $7 : 5 : 4$. How much of each type of juice is needed to make:
(a) 80 ml of the cocktail, (b) 1 litre of the cocktail?

4. Blue, red and yellow paints are mixed to produce 200 ml of another colour. How much of each colour is needed if they are mixed in the ratio:
(a) $1 : 1 : 2$, (b) $3 : 3 : 2$, (c) $9 : 4 : 3$?

5. Hannah, Grace and Jordan share out 10 biscuits so that Hannah has 2, Grace has 6 and Jordan has the remainder. Later they share out 25 biscuits in the same ratio. How many does each have this time?