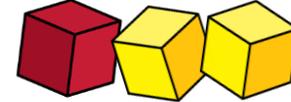White Rose Maths

1 A bag of flour and 2 bags of sugar have a total mass of 13 kg.

The mass of the bag of flour is 5 kg.

What is the mass of a bag of sugar?

2 Amir uses 18 cubes to make three towers.

Each tower is 1 cube taller than the previous tower.

How many cubes are in the tallest tower?

3 Tanya has 3 planks of wood.

- The 2nd plank is $\frac{3}{4}$ of the length of the 1st plank.
- The 3rd plank is $\frac{1}{2}$ of the length of the 1st plank.
- The total length of all 3 planks is 306 cm.

What is the length of the shortest plank of wood?

4 Filip has some money.

- He spends 30% of his money on a TV.
- He spends $\frac{1}{2}$ of the remaining money on a vacuum cleaner.
- He spends £287 on a washer.
- He has £70 left over.

How much money did Filip start with?