Recipe Ratio Problems

1). A bread dough recipe requires 5 cups of flour with 2 cups of milk.
   a). If 20 cups of flour are used, how many cups of milk would be needed?
   b). If 7 cups of milk are used, how many cups of flour would be needed?
   c). 21 cup measures are used. How many cups of flour and how many cups of milk are used?

2). A super berry smoothie recipe requires 350 ml of strawberry yoghurt with 100 ml of milk.
   a). What is the ratio of the volume of strawberry yoghurt to the volume of milk, in its simplest form?
   b). If 700 ml of strawberry yoghurt is used, what volume of milk is needed?
   c). If 250 ml of milk is used, what volume of strawberry yoghurt is needed?
   d). 405 ml of strawberry yoghurt and milk is used.
   What volume of strawberry yoghurt and what volume of milk is used?

3). A doughnut recipe requires 225 g of plain flour with 50 g of butter.
   a). What is the ratio of the amount of plain flour to the amount of butter, in its simplest form?
   b). If 180 g of plain flour is used, how much butter is needed?
   c). If 75 g of butter is used, how much plain flour is needed?
   d). 1.43 kg of plain flour and butter is used. How much plain flour and how much butter is used?

4). A chocolate truffle requires just two ingredients, 75 g of cream cheese with 225 g of melting chocolate.
   a). What is the ratio of the amount of cream cheese to the amount of chocolate, in its simplest form?
   b). If 180 g of chocolate is used, how much cream cheese is needed?
   c). If 720 g of chocolate is used, what would be the <u>mass of the truffle</u> produced?
   d). 1.5 kg of chocolate truffle is made. How much cream cheese and how much chocolate is used?

5). A pizza dough requires just two ingredients, 1 cup of self raising flour with $\frac{3}{4}$ cup of Greek yoghurt.
   a). What is the ratio of the amount of self raising flour to the amount of Greek yoghurt, in its simplest form?
   b). If 12 cups of self raising flour are used, how much Greek yoghurt will be needed?
   c). If $1\frac{1}{2}$ cups of Greek yoghurt are used, how much self raising flour will be needed?
   d). $31\frac{1}{2}$ cups of self raising flour and Greek yoghurt are used.
   How many cups of self raising flour and how many cups of Greek yoghurt are used?

6). Concrete is mixed with cement, sand and gravel in the ratio 1 : 2 : 3.
   a). If 4 buckets of cement are used, how much sand and gravel is needed to make the concrete?
   b). If 6 buckets of sand are used, how much cement and gravel is needed to make the concrete?
   c). If $1\frac{1}{2}$ buckets of gravel are used, how much sand and cement is needed to make the concrete?
   d). Altogether 42 buckets are used to measure out the concrete.
   How many buckets of cement, sand and gravel are used?

7). A builder mixes cement and sand so it is in the ratio 1 : 3.
   Six further buckets of cement are added to this mixture so the ratio of cement to sand becomes 4 : 3.
   a). How many buckets of cement were in the original mixture?
   b). How many buckets of sand were in the original mixture?

8). A cocktail of orange and lemonade is mixed in a punch bowl so it is in the ratio 2 : 5.
   1.8 litres of orange is added to the punch bowl so the ratio of orange to lemonade becomes 6 : 5.
   a). What volume of orange was in the original cocktail?
   b). What volume of lemonade was in the original cocktail?