



Year 6 Ratio and Proportion Homework 2019



Remember to use the notes that you have been given to help you. As you work through the sheet you will find that the questions get harder. The back of the sheet contains high level questions that some of you may find very hard indeed! Do as many as you can - and don't forget to challenge yourself!

1. Miss McCarter has realised that, because Lester (her cat) has such little legs, for every step she takes, poor little Lester has to take 6 steps! If Miss McCarter takes Lester for a walk and takes 500 steps, how many steps will Lester have to take?
2. Mr White has decided to repaint his office in a stunning purple. He knows that for every 4 cans of red paint he will need 3 cans of blue and 1 can of white. If he needs 3 cans of white paint, how many cans of the other colours will he need? (Remember, drawing little pictures can help you with this!).
3. Mrs Clapham wants to make herself a delicious fruit smoothie. She uses $\frac{1}{2}$ a carton of orange juice, 2 bananas and 5 strawberries. Suddenly her 3 daughters come home and want one too! What will she need now so that all 4 of them can have a drink?
4. In Class 6S there are 3 girls to every 5 boys. If there are 20 boys in the class how many children are in the class altogether?
5. As you know, Mr Griffiths is a keen but useless gardener. He decides to plant some seeds ready to grow them in his garden this summer. However, for every 8 seeds he plants, only 3 manage to survive (perhaps he should have watered them!). If he planted 88 seeds, how many of them actually grow?
6. Mr Lincoln and Miss Salih decide to bet some money on the Grand National horse race. They bet £5.00 and manage to pick the winning horse that had the odds 12:1! Mr Lincoln decides that, as he chose the winning horse, for every £1.00 that Miss Salih wins, he should get £4.00. How much do they each win?
7. A kid in Reception is making a necklace with coloured beads. They are quite clever and they follow this pattern: 3 blue, 6 red, 2 green, 4 orange and then repeat. If there are 60 beads in the necklace, how many of each colour are there?
8. Mr White is doing quite well in his new "Keep Fit" campaign. He has been told that he must drink 4 litres of water every day, exercise for 30 minutes a day and ensure that he gets his 5-a-day of fruit and vegetables. If he manages to stick to this routine for 2 whole weeks, how much water, exercise and fruit/veg will he have drunk, done and eaten?!

