Ratio and Proportion www.m4ths.com - Steve Blades ©

- (1) Simplify the ratio 3:6:18
- (2) Share £30 in the ratio 1:4
- (3) 6 identical pens cost £1.26. Find the cost of 7 pens.
- (4) Which is better value? 23 biscuits for £4.14 or 31 identical biscuits for £5.27. YOU MUST SHOW YOUR WORKINGS AND JUSTIFY YOUR ANSWER.
- (5) Some money was shared in the ratio 2:7. The smaller part was worth £14. How much was the larger part worth?
- (6) Write the ratio 7:11 in the form 1:n
- (7) Fred and Bob share some money in the ratio 2:5. Bob has £12 more than Fred. How much does Fred have?
- (8) Write the ratio $\frac{1}{5}$: $\frac{4}{5}$ in its simplest form.
- (9) It takes 2 men 4 days to build a wall. How long would it take one man to build 4 walls if they worked at the same rate?
- (10) Write the ratio $\frac{2}{7}$: $\frac{1}{14}$ in its simplest form.
- (11) Share £40 in the ratio 1:1:1:2
- (12) Write the ratio 5:13 in the form n:1
- (13) Fred and Bob share a cake. Fred has one sixth of the cake and Bob has the rest. What ratio did they share the cake in?
- (14) Andy, Bob and Chad share some money in the ratio 1:3:6. Chad has £20 more than Andy. How much money was shared?
- (15) There are less than 30 counters in a bag. The counters are red or blue. The ratio of red to blue is 3:4. What is the maximum possible number of counters in the bag?
- (16) John got 38% of the questions in a maths test correct. He got the rest of the questions incorrect. What was the ratio of correct to incorrect answers? Give your answer as a fully simplified ratio.
- (17) Some money is shared in the ratio 2 : m : n. The middle share is twice the smallest share and one third of the largest share. Find the value of m and the value of n.
- (18) Which is better value? 24 cakes for £39.60 or 42 cakes for £65.94? YOU MUST SHOW YOUR WORKINGS AND JUSTIFY YOUR ANSWER.
- (19) The ratio of cats to dogs is 3:8. The ratio of dogs to frogs is 4:7. What is the ratio of cats to frogs?
- (20) 29 identical cakes cost £44.66. Fred wants to buy 50 of the cakes. He will get a 10% discount if he buys 50 cakes. What would be the cost of the £50 cakes?