Ratio, Proportion, Variation and Alligation Practice

# 20 Minutes – (Don’t skip any questions)

1. If , then is

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1. is to be divided among Jack, Jill and Joseph such the amount Jack has is as much as Jill’s and times as Joseph’s. What should be the share of Jack, Jill and Joseph?

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1. A bag contains rupee, -paise and -paise coins in the ratio . If there are no more coins added, how much is the value of the greatest number of coins if the total value of coins is ?

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1. In a mixture of liters, the ratio of milk and water is . If liters of water and liters of milk are added to the mixture, what is the new ratio of water and milk?

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1. Find the sum of the positive integers which are in the ratio and the sum of whose squares is .

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1. Mihir and Mayur have marbles in the ratio of . If more marbles are given to both, then Mihir has as much marbles as Mayur’s. Find how many marbles Mayur has before and after the addition.

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1. is divided among four persons Dan, Danny, Dorothea and Dodo such that Dan’s share to Danny’s , Danny’s share to Dorothea’s , and Dorothea’s share to Dodo’s . How much more did Dorothea receive than Dodo?

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1. Albert, Ali and Alta together have . If their shares are diminished by , and respectively, the remainders shall be in the ratio . Find their shares.

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1. The ratio of number of boys to the number of girls in a school of is . If the number of girls is increased by , what must be the decrease in the number of boys to make the new ratio of boys to girls ?

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1. The ratio of number of boys and girls in a school of students is . How many more girls should be admitted to make the ratio ?

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1. is divided among A, B and C so that half of A’s part, one-third of B’s part and one-sixth of C’s part are equal. B’s part =?

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1. An alloy of zinc and tin contains them in the ratio of . Find the weight of zinc which must be added to kg of this alloy if the final ratio of zinc and tin is to be .

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1. Two boxes A and B were filled with beans and rice mixed in A in the ratio of and B in the ratio of . What quantity must be taken from each to form a mixture which shall contain kg of beans and kg of rice?

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