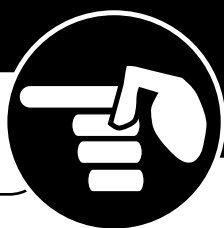


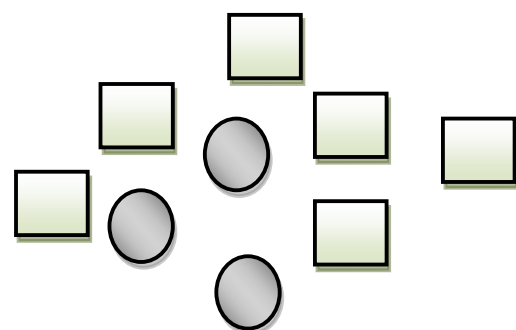
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4.7 Ratio

To examine and solve practical problems using ratio



Ratio



What is the ratio of circles to squares?

We say the ratio is "3 to 6". In Maths we write this as 3:6 or in its simplest form, as 1:2.

In the following questions write the ratio in its simplest form.

1. In a class of 25 students there are 10 boys and 15 girls. What is the ratio of boys to girls?

2. When making a cake, the recipe requires 50g of margarine, 125g of sugar and 150g of flour. Work out the ratio of these 3 ingredients to each other.

3. If a bricklayer is making up a mortar he mixes sand and cement in a ratio of 3:1. He has to make 1 tonne (1000kg) of mortar. How much sand and cement does he need?

4. A prize of €3600 is divided between Niall and Declan in the ratio of 3:2. How much will Niall and Declan get? Hint: ratio 3:2 = 5 parts, Niall = 3/5 of €3600, Declan = 2/5 of €3600.

5. The ratio of boys to girls in a school is 5:1. If there are 300 boys, how many girls are in the school?

6. The ratio of right-handed people to left-handed people is 9:1. In a class of 30 students how many might be left-handed?

7. Measure the length and width of your workbook and work out the ratio.

8. Measure your height and the length of your arm and work out the ratio.

CONCLUSION: What I have done...

