

Ratio and Proportion Problems

Set B

- 1) To make orange paint, you mix 13 litres of yellow paint to 6 litres of red paint to 1 litre of white paint.

○ How many litres of each colour do you need to make 10 litres of orange paint?

- 2) Flaky pastry is made by using flour, margarine and lard in the ratio 8 : 3 : 2 by weight.

○ How many grams of margarine and lard are needed to mix with 200 grams of flour?

- 3) A square and a rectangle have the same area. The sides of the rectangle are in the ratio 9 : 1. Its perimeter is 200 cm.

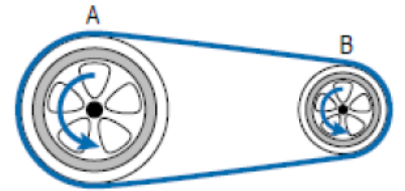
○ What is the length of a side of the square?

- 4) The chocolate bars in a full box weighed 2 kg in total. Each bar was the same size. Eight of the bars were eaten. The bars left in the box weighed 1.5 kg altogether.

○ How many chocolate bars were in the original box?

- 5) A and B are two chain wheels. For every 2 complete turns that wheel A makes, wheel B makes 5 complete turns. Wheel A makes 150 turns.

○ How many turns does wheel B make?



- 6) A 365 g packet of coffee costs £2.19.

○ How much per 100 g of coffee is this?

- 7) £1 is worth 3 Australian dollars (A\$). A girl changed £50 into Australian dollars, went on holiday to Australia and spent A\$ 96. At the end of the holiday she changed the Australian dollars back into £.

○ How much did she get?

- 8) The cost of a take-away pizza is £6. A pie chart is drawn to show how the total cost is made up. The cost of labour is represented by a sector of 252° on the pie chart.

○ What is the cost of labour?

- 9) Cinema tickets for one adult and one child cost a total of £11.55. The adult's ticket is one-and-a-half times the price of the child's ticket. How much does each ticket cost?