



chapter 7 review

1. (a) ✎ Philip and Sandra shared €500 between them in a ratio of 3:2. How much did each receive?
 - (b) ✎ Write 20 g:0.5 kg in the smallest possible ratio.
 - (c) ✎ On Monday a train left Dublin at 18:15 and arrived in Sligo at 21:00.
 - (i) How many hours and minutes did the train journey take?
 - (ii) The distance travelled by the train was 220 km. Calculate the average speed, in km/hr, for the train journey.
 - (iii) On Tuesday, the train left Dublin at 18:15 and travelled to Sligo. The average speed for this journey of 220 km was 88 km/hr. At what time did the train arrive in Sligo?
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2. (a) ✎ A plane left Galway airport at 13:25 and arrived in Manchester airport at 14:42. How many hours and minutes did the journey take?
 - (b) ✎ A prize fund was divided between two people in a ratio of 5:2. If the larger share was €1500, find the value of the prize fund.
 - (c) ✎ Five people, working at the same rate, in a computer factory assemble six computers in one hour.
 - (i) How many hours would it take two of these people to assemble six computers?
 - (ii) How many computers would 15 of these people produce in one hour?
 - (iii) How many people would it take to produce 120 computers in five hours?
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3. (a) ✎ Change each of the following to m: (i) 5.64 km (ii) 4570 cm
 - (b) ✎ Write $\frac{1}{7}:\frac{1}{2}$ in its simplest whole number ratio.
 - (c) ✎ Carol went from Cork to Waterford by car, a journey of 125 km, at an average speed of 100 km/hr.
 - (i) How many hours and minutes did the journey take?
 - (ii) Carol left Cork at 13:15. At what time did she arrive in Waterford?
 - (iii) Carol's car used 1 litre of petrol for every 12.5 km travelled. If petrol cost €1.10 per litre on that day, find the cost of the petrol used by Carol's car for that journey.

4. (a) € Seán, Kate and Cathal shared €14 000 between them in a ratio of 4:2:1. How much did each receive?
- (b) € A cookbook gives the ingredients for an apple tart big enough to feed four people:
4 cooking apples; 200 g of flour; 80 g of margarine; 2 eggs; 1 litre of milk; 100 g of sugar.
How much of each ingredient would be required to make an apple tart big enough for six people?
- (c) € A coffee machine has two taps. Both taps deliver coffee at the same rate. Each tap working on its own fills a jug of coffee in 30 seconds.
- (i) How long would it take to fill the same jug if both taps are working together?
- (ii) One of the taps becomes faulty. Working on its own, it now takes 50 seconds to fill the same jug. How long does it now take to fill the jug when both taps are working together?
5. (a) € Subtract 450 g from 1.2 kg. Give your answer in g.
- (b) € An athlete runs 100 m in 10 seconds. Find, in km/hr, the average speed of the athlete.
- (c) € Aoife travelled by car from Dundalk to Kilkenny, which is a distance of 200 km.
- (i) She travelled the first 80 km at an average speed of 90 km/hr. How many minutes and seconds did it take her to travel the first 80 km?
- (ii) The remainder of the journey took one and a half hours. Calculate the average speed for this part of the journey.
6. (a) € How many (i) 15 cm lengths and (ii) 5 cm lengths of wood can be cut from a 3 m length of wood?
- (b) € Find the value of $3.2\text{kg} - 2.0\text{kg} + 400\text{g}$. Give your answer in kg.
- (c) € Mary started a journey of 120 km at 13:40 and arrived at her destination at 15:10.
- (i) Calculate the average speed for the journey.
- (ii) If the average speed for the first 50 km of Mary's journey was 75 km/hr, how long, in minutes, did it take Mary to complete the rest of her journey?