

## Rate

Paul and Ray worked together to paint a house. During the job Paul rested for 4 days and Ray took 2 days off. However, they were not absent on the same days. If they had done the same job alone, Paul would have taken 18 days and Ray 12 days. How long did the two painters take to complete painting the house?

Mr Lim took 3 hours to paint a room by himself. Mr Tan took 6 hours to paint the same room by himself. How long would they have taken if they had painted the same room together?

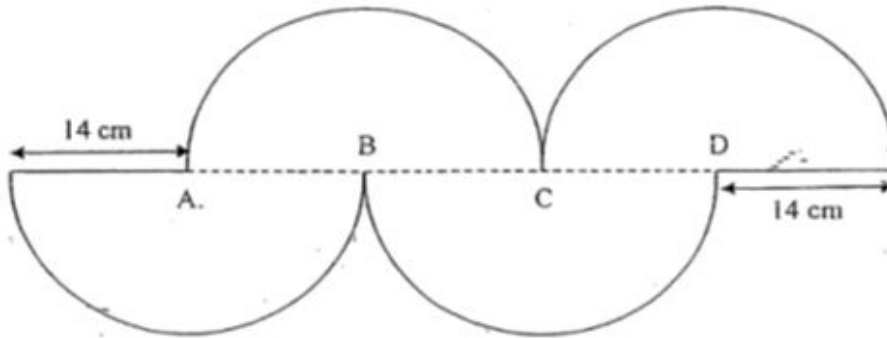
## Speed Time Distance

The distance between Town X and Town Y was 480 km. At 9.30 a.m, a van left Town X for Town Y travelling at a constant speed. At the same time, a car travelling at a constant speed set off from Town Y towards Town X. The two vehicles met each other at 1.30 p.m. The car was travelling at 20km/h faster than the van. What was the speed of the car?

Car A left Town X for Town Y at the same time when Car B left Town Y for Town X. The average speed of Car A was 56 km/h and the average speed for Car B was 72 km/h. The two cars passed each other at a point 24 km from the midway of the two towns. What is the distance between Town X and Town Y?

## Area of Circle

29. In the figure below, A, B, C and D are the centres of the 4 identical semicircles. The radius of each semicircle is 14 cm. Find the perimeter of the figure. (Take  $\pi = \frac{22}{7}$ )



- 18 Three incomplete circles of radius 7cm are shaded as shown below. The line of symmetry is indicated by the dotted line. Find the area of the shaded part.

(Take  $\pi = \frac{22}{7}$ )

