

## Speed, Distance and Time

(a) A man walking takes 2 hours to walk 10 miles. What was his speed?

(a) 5 mph

(b) A policeman took  $2\frac{1}{2}$  hours to travel 100 miles. What speed was he travelling at?

(b) 40 mph

(c) A girl ran 105 metres in 15 seconds. What was her speed?

(c) 7 m/s

(d) A cyclist took 1 hours 24 minutes to travel 28 km. What speed was the cyclist travelling at?

(d) 20 km/h

(a) What distance would a car travel after  $4\frac{1}{2}$  hours travelling at 60 mph?

(a) 270 miles

(b) Find the distance travelled by a train travelling at 140 km/h for 6 hours.

(b) 840 km

(c) If a person runs at 5 m/s, how long will it take that person to run 300 metres?

(c) 60 seconds

(d) A horse travels at 12 km/hour. How long will it take to travel 18 km?

(d)  $1\frac{1}{2}$  hours

Convert:

(a) 60 km/h into m/s

(a) 16.7 m/s (1dp)

(b) 75 km/h into m/s

(b) 20.8 m/s (1dp)

(c) 126 km/h into m/s

(c) 35 m/s

(d) 18 m/s into km/h

(d) 64.8 km/h

(e) 50 m/s into km/h

(e) 180 km/h

(f) 42 m/s into km/h

(f) 151.2 km/h.

(a) The speed limit on a road is 50 mph. A car travels 19 miles in 22 minutes. Is the car breaking the speed limit?

(a) Yes, it is travelling at 51.8 mph (1dp)

(b) Lee completes a journey in three stages. In stage 1, he drives at 30 km/h for 45 minutes. In stage 2, he drives at 50 km/h for 2 hours 48 minutes. Altogether, over all three stages, he drives 200 km in 4 hours. What is Lee's average speed in stage 3 of his journey?

	s	d	t
1	30	22.5	0.75
2	50	140	2.8
3		37.5	0.45
Total		200	4

$s = 83.3$  km/h (1dp)

(c) Given that 1 mile = 1.6 km, which is faster - 35 mph or 57 km/h?

(c) 57 km/h > 56 km/h  
35 mph