Speed (1)

A. Complete the following table.

	Distance	Time	Speed
(1)	360 km	5 h	
(2)		3 h	65 km/h
(3)	480 km		80 km/h

B. Do these sums. Show all your working clearly.

(1) The average speed of a cyclist is $20\frac{1}{2}$ km/h. How far does he travel in 4 hours?

(2) An aeroplane completed a 4250 km journey in 5 hours. What was its average speed?

(3) How many kilometres can Zhihua walk in $3\frac{1}{4}$ h if his average speed of walking is 50 m/min?

(4) Johari cycled from village X to village Y which was 75 km away. He left village X at 8.45 a.m. and cycled at 15 km/h. At what time did he reach village Y?

(5) Jiali travelled to town A by bus. The bus travelled at 50 km/h for 3 hours. She then walked to her grandfather's house at 5 km/h for half an hour. What was the total distance travelled by Jiali?

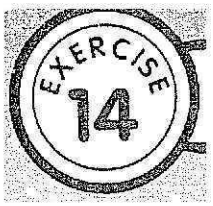
(6) A motorist drove 108 km in 1 h 30 min. How far did he travel in 50 min if he drove at the same rate throughout his journey?

(7) Car A travelled 216 km in 3 hours and car B travelled 260 km in 4 hours.
   (a) Which car travelled faster?
   (b) How much faster was it?

(8) Mr Muthu drove at a certain speed of 65 km/h for 3 hours and 73 km/h for 2 hours. What was his average speed for the whole journey?

(9) It is 480 km from town A to town B. Hassan took 6 hours to complete the journey. At this same average speed, how long would he take to reach town C, which is 240 km away?

(10) Dawei drove a distance of 260 km at 65 km/h. Then he stopped for 30 minutes to have his lunch. After lunch, he covered the rest of his journey at 55 km/h. If the second part of his journey was 165 km, how long did he take for the whole journey?



Speed (2)

Do these sums. Show all your working clearly.

(1) Mr Zheng travelled from city A to city B. He left city A at 7.30 a.m. and reached city B at 12 noon. Find his average speed if city B is 180 km away from city A.

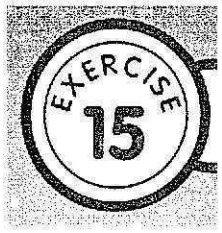
(2) Jianshu drives at a uniform speed of 68 km/h. Shuren drives at a uniform speed of 50 km/h. What is the difference in the distances they travel in $2\frac{1}{2}$ hours?

(3) Mrs Feng drove at an average speed of 80 km/h for $\frac{3}{4}$ hour and then at 55 km/h for $1\frac{1}{5}$ hours. What was the total distance of her journey?

(4) Lisa ran around a rectangular field 150 m long and 50 m wide at an average speed of 100 m/min. How long did she take to complete 5 rounds?

(5) Aimei drove 130 km from town X to town Y at a uniform speed of 60 km/h. She left town X at 11.20 a.m. At what time did she reach town Y?

(6) In a race, Hulin cycled at an average speed of 15 km/h for the first 10 km and at an average speed of 12 km/h for the remaining 6 km. Find his average speed for the whole journey in kilometres per hour.



Speed (3)

Do these sums. Show all your working clearly.

(1) The distance between A and B is 3400 m. Lihua walks from A to B in 40 minutes and takes 5 minutes more to return to A. What is Lihua's average speed in m/min for the whole journey from A to B and back to A again?

(2) An aeroplane flew from A to B in 3 hours, covering a distance of 540 km per hour. On the return trip, as the weather was bad, the average speed was reduced by 60 km/h. How many hours did the aeroplane take to return from B to A?

(3) A sports car travels from A at a speed of 84 km/h, and reaches B in $1\frac{1}{2}$ hours. A normal car travels at $\frac{2}{3}$ of the sports car's speed. How many hours does the normal car take to reach B?

(4) A train is 143 m long. It moves towards a tunnel at a speed of 15 m/s. It takes 3 min 42 s for the entire length of the train to pass through the tunnel. How long is this tunnel?

5) A car travels from X to Y in 3 hours at a speed of 35 km/h. If the speed is increased by 20%, how much earlier will the car reach Y, in minutes?

6) Cities W and Z are 280 km apart. A train travels for $3\frac{1}{2}$ hours, and covered 75% of the whole journey. Find the average speed of the train.

Exercise 13

A (1) 72 km/h (2) 195 km (3) 6 h

B (1) 82 km (2) 850 km/h (3) 9.75 km
(4) 1.45 p.m. (5) 152.5 km (6) 60 km
(7) (a) Car A (b) 7 km/h

(8) $68\frac{1}{5}$ km/h (9) 3 h (10) $7\frac{1}{2}$ h

Exercise 14

(1) 40 km/h (2) 45 km (3) 126 km
(4) 20 min (5) 1.30 p.m.
(6) $13\frac{5}{7}$ km/h

Exercise 15

(1) 80 m/min (2) $3\frac{3}{8}$ h (3) $2\frac{1}{4}$ h
(4) 3187 m (5) 30 min (6) 60 km/h