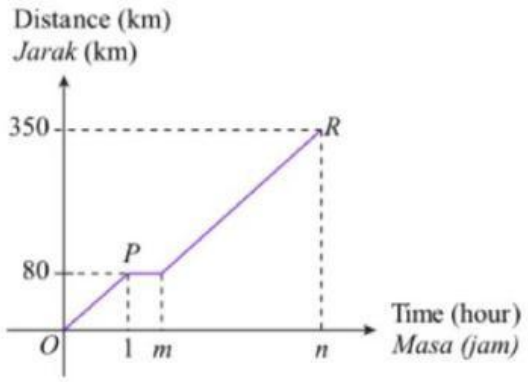
1. Siti cycles 96 m in 2.5 seconds. Calculate her speed.
Siti mengayuh basikal sejauh 96 m *dalam* 2.5 *saat. Hitung lajunya.*

- A 24.6 m/s
- B 38.4 m/s
- C 42 m/s
- D 48.2 m/s

2. The graf shows the journey of a car from *O* to *R*. The car stopped at *P* for 30 minutes and then continued the journey for 2 hours 30 minutes until the car reached *R*. *Graf di bawah menunjukkan perjalanan sebuah kereta dari O ke R. Kereta itu berhenti di P selama* 30 *minit dan kemudian meneruskan perjalanannya selama* 2 jam 30 *minit sehingga kereta itu sampai ke R.*



Which of the following is correct?
Antara berikut, yang manakah betul?

- A The car travels with the speed of 53.3 km/h from *O* to *P*.
  Kereta itu bergerak dengan kelajuan 53.3 km/j *dari O ke P.*
- B The car travels with the speed of 160 km/h from *O* to *P*.
  Kereta itu bergerak dengan kelajuan 160 km/j *dari O ke P.*
- C After rest, the car travels with the speed of 108 km/h to *R*.
  Selepas rehat, kereta itu bergerak dengan kelajuan 108 km/j *ke R.*
- D After rest, the car travels with the speed of 140 km/h to *R*.
  Selepas rehat, kereta itu bergerak dengan kelajuan 140 km/j *ke R.*

3. The speed of sound is 330 m/s. What is the speed of sound in km/h?
Laju bunyi ialah 330 m/s. *Apakah laju bunyi dalam* km/j?

- A 980
- B 1 088
- C 1 098
- D 1 188

4. A car is travelling at a speed of 90 km/h for 45 minutes. Calculate the distance, in km, travelled by it.
Sebuah kereta bergerak dengan kelajuan 90 km/j *selama* 45 minit. *Hitung jarak, dalam* km, *perjalanan kereta itu.*

- A 10.5
- B 30.5
- C 45.5
- D 67.5

LIVEWORKSHEETS

5. Chandra drives 200 km from *P* to *Q* at an average speed of 60 km/h. Later, he drives [illegible] to *P* from *Q* at an average speed of 80 km/h. Find the total time, in minutes, taken for the journey [illegible] d fro.
Chandra memandu 200 km *dari P ke Q dengan laju purata* 60 km/j. *Kemudian, dia men[illegible] pulang ke P dari Q dengan laju purata* 80 km/j. *Cari jumlah masa, dalam minit, yang diambil bagi pe[illegible]an pergi dan pulang.*

- A 450
- B 420
- C 350
- D 280

6. A cyclist accelerates from 7 m/s to 13 m/s in 5 seconds. Calculate the acceleration, in m/s^2.
Seorang penunggang basikal memecut daripada 7 m/s *kepada* 13 m/s *dalam masa* 5 *saat. Hitung pecutannya dalam* m/s^2.

- A 0.6
- B 0.8
- C 1.2
- D 1.8

7. A car travelled from town *A* at 1400 hours with a speed of 60 km/h. Its speed is 85 km/h when it reached town *B* at 1430 hours. Calculate the acceleration, in km/h^2.
Sebuah kereta bergerak dari bandar A pada jam 1400 *dengan kelajuan* 60 km/j. *Lajunya menjadi* 85 km/j *apabila tiba di bandar B pada jam* 1430. *Hitung pecutan, dalam* km/j^2.

- A 25
- B 40
- C 50
- D 60

8. May travelled from *P* with an average speed of 110 km/h for 2 hours. Then she reduced the speed to half of the original speed and reached *Q* 30 minutes later. Calculate the distance from *P to Q*, in km.
May bergerak dari P dengan laju purata 110 km/j *selama* 2 jam. *Kemudian dia mengurangkan kelajuan kepada separuh daripada laju asal dan tiba di Q dalam* 30 *minit kemudian. Hitung jarak dari P ke Q, dalam* km.

- A 247.5 km
- B 227.4 km
- C 220 km
- D 210 km

9. A moving object accelerates from a speed of 6 m/s to 12 m/s in 4 seconds.
Find the acceleration, in m/s per second, of the object.
Suatu objek bergerak memecut dari kelajuan 6 m/s *kepada* 12 m/s *dalam masa* 4 *saat.*
Cari pecutan, dalam m/s *sesaat, objek itu.*

- A 0.5
- B 1.5
- C −0.5
- D −1.5

10. Convert 24 m/s to km/h.
Tukar 24 m/s *kepada* km/j.

- A 86.4
- B 88
- C 90
- D 92.5

LIVEWORKSHEETS

11. A cyclist moves at a speed of 12 m/s for 3 hours 15 minutes. Calculate the distance, in km, travelled by the cyclist.
Seorang penunggang basikal mengayuh dengan laju 12 m/s *selama* 3 *jam* 15 *minit. Hitung jarak, dalam* km, *yang dilalui penunggang basikal itu.*

- A 140.4
- B 112.2
- C 37.8
- D 13.29

12. The speed of a car changes from 30 m s^{-1} to 20 m s^{-1} in 5 seconds. The acceleration of the car, in m s^{-2}, is
Laju sebuah kereta berubah daripada 30 m/s *kepada* 20 m/s *dalam* 5 saat. *Pecutan kereta itu, dalam* m/s^2 *ialah*

- A −1
- B −2
- C −5
- D −10

13. The speed of a car is increased from 72 km/h to 144 km/h in 20 seconds. Calculate the acceleration, in m/s^2.
Laju sebuah kereta bertambah dari 72 km/j *kepada* 144 km/j *dalam masa* 20 saat. *Hitung pecutan, dalam* m/s^2.

- A 2.8
- B 1.6
- C 1.0
- D 0,9

14.

Initial speed = 84 km/h *Laju awal* = 84 km/j
Final speed = 0 km/h *Laju akhir* = 0 km/j
Time taken = 16 minutes *Masa yang diambil* = 16 *minit*

Find the acceleration or deceleration in km/h^2.
Cari pecutan atau nyahpecutan dalam km/j^2.

- A Deceleration 5.25 km/h^2
  Nyahpecutan 5.25 km/j^2
- B Acceleration 5.25 km/h^2
  Pecutan 5.25 km/j^2
- C Deceleration 315 km/h^2
  Nyahpecutan 315 km/j^2
- D Acceleration 315 km/h^2
  Pecutan 315 km/j^2

LIVEWORKSHEETS

15. Philip was driving at a uniform speed of 65 km/h. He then accelerated to 85 km/h in [illegible] nutes. Calculate the acceleration, in km/h per hour, of his car.
Philip memandu dengan laju seragam 65 km/j. *Kemudian dia memecut kepada* 85 km/[illegible] *m masa* 30 *minit. Hitung pecutan, dalam* km/j *per jam, bagi keretanya.*

- A 20
- B 40
- C 50
- D 60

16. A car accelerates at 12 km/h per second for 5 seconds to reach 110 km/h. Calculate the initial speed, in km/h, of the car.
Sebuah kereta memecut 12 km/j *per saat selama* 5 *saat untuk mencapai* 110 km/j. *Hitung laju awal, dalam* km/j, *kereta itu.*

- A 170
- B 100
- C 70
- D 50

17. A bus takes 1 hour 45 minutes to travel from town *K* to town *L*. The distance between the towns is 200 km. Find the speed, in km/h, of the bus.
Sebuah bas mengambil masa 1 *jam* 45 *minit untuk bergerak dari bandar K ke bandar L. Jarak di antara bandar itu ialah* 200 km. *Cari laju, dalam* km/j, *bas itu.*

- A 116.39
- B 114.29
- C 108.29
- D 97.39

18. Kuan Yaw travelled from *P* with an average speed of 90 km/h for $1\frac{1}{2}$ hours. Then he reduced the speed to half of the original speed and reached *Q* 30 minutes later. Calculate the distance from *P* to *Q*, in km.
Kuan Yaw bergerak dari P dengan laju purata 90 km/j *selama* $1\frac{1}{2}$ *jam. Kemudian dia mengurangkan kelajuan kepada separuh daripada laju asal dan tiba di Q* 30 *minit kemudian. Hitung jarak dari P ke Q, dalam* km.

- A 270
- B 157.5
- C 135
- D 67.5

19. Daud drove his car from *K* to *M*, 200 km away at a speed of 80 km/h. For the return journey, the time taken was $1\frac{1}{2}$ hours longer than the journey from *K* to *M*. Find the speed, in km/h, for the return journey.
Daud memandu keretanya dari K ke M yang jauhnya 200 km *dengan laju* 80 km/j. *Dalam perjalanan pulang, masa yang diambil adalah* $1\frac{1}{2}$ *jam lebih daripada perjalanannya dari K ke M. Cari laju, dalam* km/j, *bagi perjalanan pulang.*

- A 50
- B 60
- C 100
- D 120

LIVEWORKSHEETS

20. The speed of a car is increased from 36 km/h to 72 km/h in 20 seconds. Calculate the acceleration, in $m\ s^{-2}$.
Laju sebuah kereta bertambah dari 36 km/j *kepada* 72 km/j *dalam masa* 20 saat. *Hitung pecutan, dalam* $m\ s^{-2}$.

- **A** 0.5
- **B** 0.8
- **C** 5
- **D** 8

LIVEWORKSHEETS