Past Papers Worksheet P2 Average Speed IGCSE Mathematics 0580



Speed = Distance / Time Average Speed = Total Distance/ Total Time

1. The distance, by road, between Foxby and Glanton is 15km.
   A bus travels along the road between Foxby and Glanton.
   The bus journey takes 12 minutes.
   Calculate the average speed of the bus in kilometres per hour.
   4024/11/M/J/21 Q15(b)

2. Sophie cycles 2600 metres in 12 minutes.
   Work out Sophie's average speed in kilometres per hour.
   4024/12//O/N/22 Q13)

3. A car travels at 108 km/h for 20 seconds.
   Calculate the distance the car travels.
   Give your answer in metres. [3]
   0580/23/O/N/18 Q15)

4. Amar cycles at a speed of 18km/h.
   It takes him 55 minutes to cycle between two villages.
   Calculate the distance between the two villages. [2]
   0580/22/O/N/17 Q8)

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5. Two ports LP are 248 km apart.
   A ship leaves L at 2045 and travels at a speed of 40km/h.
   Calculate the time the next day that the ship arrives at P
   [3]
   0580/42/F/M/18 Q8(b)(ii)

6. A train travels for m minutes at a speed of x metres per second.
(a) Find the distance travelled, in kilometres, in terms of m and x.[2]
(b) When m = 5, the train travels 10.5 km. Find the value of x. [2]
   0580/21/O/N/16 Q20 (a)

7. A train takes 65 minutes to travel 52 km.
   Calculate the average speed of the train in kilometres per hour. [2] **0580/23/O/N/14 Q5)**

8. Mr Chan flies from London to Los Angeles, a distance of 8800km.
   The flight takes 11 hours and 10 minutes. Work out the average speed of the plane in km/h. [2]
   0580/42/M/J/16 Q1)(a) (ii)

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9. Ahmed and Ali left for home at 1540.
   The average speed for their 88km journey was 55km/h.
   Work out the time at which Ahmed and Ali arrived home. [3]
   0580/47/M/J/14 Q1)(d)

10. A car travels a distance of 1280 metres at an average speed of 64 kilometres per hour.
    Calculate the time it takes for the car to travel this distance.
    Give your answer in seconds. [3]
    0580/21/M/J/15 Q13)

11. The children travel 270 km to the camp, leaving at 07 43 and arriving at 15 13.
    Calculate their average speed in km/h. [3]
    0580/42/O/N/11 Q1)(c)

12. (a) Convert 144km/h into metres per second. [2]
    (b) A train of length 120m is travelling at 144km/h. It passes under a bridge of width 20m.
    Find the time taken for the whole train to pass under the bridge.
    Give your answer in seconds. [2]
    0580/21/O/N/13 Q19)

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13. The length of the train is 210 m.
    It passes through a station of length 340 m, at a speed of 180 km/h.
    Calculate the number of seconds the train takes to pass completely through the station. [3]
    0580/43/M/J/12 Q1)(c)

14. The train is 61cm long and travels at a speed of 18cm/s.
    It takes 4 seconds for the whole of the train to cross a bridge.
    Calculate the length of the bridge [2]
    0580/42/F/M/20 Q1(b)

15. A train passes through a station at a speed of 108km/h.
    The length of the station is 120m.
    The train takes 7 seconds to completely pass through the station.
    Work out the length of the train in meters. [3]
    0580/21/M/J/22 Q14)
    [Answers on next page]

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Answers

Q1) 75km	Q6) 3mx /50 (b)35	Q11) 36
Q2) 13 km/h	Q7) 48	Q12) (a) 40 (b) 3.5
Q3) 600	Q8) 788	Q13) 11
Q4) 16.5	Q9) 1716	Q14) 11
Q5) 02 57 or 257 am	Q10) 72	Q15) 90

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