# Speed, Distance & Time: Medium Practice Paper 5 Answers

| Q# | Answer | Explanation |
|---|---|---|
| 1 | D | Divide the distance by the time: 231 ÷ 3 = 77 km/h. |
| 2 | C | 1 hour 40 minutes is 5/3 hours, so the distance is 60 × 5 ÷ 3 = 100 km. |
| 3 | C | Time is distance divided by speed: 105 ÷ 42 = 2.5 hours, which is 2 hours 30 minutes. |
| 4 | D | In one hour the distance is 20 × 3600 = 72 000 m, which is 72 km, so the speed is 72 km/h. |
| 5 | B | From 10:18 to 11:18 is 1 hour, and from 11:18 to 12:03 is 45 more minutes, making 1 hour 45 minutes. |
| 6 | D | 20 minutes is one third of an hour, so in a whole hour the train would travel 3 × 25 = 75 km. |
| 7 | B | The total distance is 90 + 60 = 150 km in 3 hours, so the average speed is 150 ÷ 3 = 50 km/h. Notice this is not the same as the average of 45 and 60. |
| 8 | C | 50 minutes is 50 ÷ 60 of an hour, so the distance is 66 × 50 ÷ 60 = 55 km. |
| 9 | C | The time is 6 ÷ 8 = 0.75 hours, and 0.75 × 60 = 45 minutes. |
| 10 | C | From 06:55 to 08:55 is 2 hours, and from 08:55 to 09:40 is 45 more minutes, making 2 hours 45 minutes. |
| 11 | B | 2 minutes 40 seconds is 160 seconds, so the speed is 800 ÷ 160 = 5 metres per second. |
| 12 | D | 4 hours 30 minutes is 4.5 hours, so the distance is 40 × 4.5 = 180 km. |
| 13 | C | Divide the distance by the speed: 180 ÷ 60 = 3 hours. |
| 14 | C | Each minute the bus covers 15 ÷ 25 = 0.6 km, so in 60 minutes it covers 60 × 0.6 = 36 km. |
| 15 | C | Ben's route is 15 × 20 ÷ 60 = 5 km. Walking 5 km at 5 km/h takes 5 ÷ 5 = 1 hour. |