

REMEMBER THESE

- Speed = Distance / Time
- Time = Distance / Speed
- km/h to m/s: divide by 3.6
- Distance = Speed x Time
- PKT = UTC + 5 hours
- m/s to km/h: multiply by 3.6

Write your answers in the space provided. Answer key is on the last page.

ELAPSED TIME

- 1 A bus leaves Karachi at 14:35 and arrives in Hyderabad at 17:10. How long is the journey? (Write in hours and minutes)

TIME ZONES

- 2 Pakistan Standard Time (PKT) is UTC+5. If it is 08:00 PKT in Karachi, what is the time in UTC?

SPEED, DISTANCE, TIME

- 3 Time = Distance / Speed. A car travels at 80 km/h. How long does it take to travel 200 km? (Write in hours and minutes)

CROSS-MIDNIGHT

- 4 A flight departs at 23:50 on Friday. The journey takes 8 hours 25 minutes. What time and day does it arrive?

CALCULATE

- 5 A factory runs 3 equal shifts each day. Each shift lasts 7 hours 40 minutes. What is the total working time for all 3 shifts?

SPEED, DISTANCE, TIME

- 6 Speed = Distance / Time. A car travels 270 km in 3 hours. What is its average speed in km/h?

SPEED, DISTANCE, TIME

- 7 Distance = Speed x Time. A train travels at 120 km/h for 2 hours 30 minutes. What distance does it cover?

ADDING DURATIONS

- 8 A student studies 2 hours 45 minutes in the morning and 1 hour 50 minutes in the evening. What is the total study time? (Write in hours and minutes)

CALCULATE

- 9 A satellite completes one orbit every 96 minutes. How many complete orbits does it make in 24 hours?

CONVERT

- 10 Convert 9 hours 25 minutes to minutes.

TIME ZONES

- 11 It is 15:00 in Karachi (PKT, UTC+5). What is the time in London (UTC+0)?

UNIT CONVERSION

- 12 Convert 72 km/h into metres per second (m/s). (Divide by 3.6)

UNIT CONVERSION

- 13 Convert 15 m/s into kilometres per hour (km/h). (Multiply by 3.6)

DISTANCE-TIME GRAPH

- 14 A distance-time graph shows a cyclist leaving home. The line rises steadily from 0 km at 09:00 to 24 km at 11:00, then stays flat until 11:30.

DISTANCE-TIME GRAPH

- 15 On that same distance-time graph, the line is flat between 11:00 and 11:30. What does a flat (horizontal) line mean on a distance-time graph?

SPEED, DISTANCE, TIME

- 16 A car travels 315 km at a speed of 90 km/h. How long does the journey take? (Write in hours and minutes)

Answer Key

1. 2 hours 35 minutes
2. 03:00
3. 2 hours 30 minutes
4. 08:15 Saturday
5. 23 hours
6. 90 km/h
7. 300 km
8. 4 hours 35 minutes
9. 15
10. 565
11. 10:00
12. 20 m/s
13. 54 km/h
14. 12 km/h
15. The cyclist is stationary (stopped, at rest)
16. 3 hours 30 minutes