

Maths Workout - Geometry & Measures

Topic 18 - Speed, Distance & Time				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Calculate distance, speed, time and average speed</i>	<i>Read and interpret a distance-time graph Calculate speed</i>	<i>Read and interpret a distance-time graph Calculate speed and average speed</i>	<i>Construct a distance-time graph to solve a problem</i>	<i>Construct a distance-time graph to solve a problem Calculate average speed</i>
1. Calculate a journey time in hours and minutes: start and finish in the same day: 24hr clock	1. Read and interpret a distance time graph: 3 sections	1. Read and interpret a distance-time graph	1. Construct a distance time graph: 3 sections	1. Construct a distance time graph: 5 sections
2. Calculate a journey time in hours and minutes: some journeys across midnight: 24hr clock	2. Read and interpret a distance time graph: 3 sections	2. Read and interpret a distance-time graph	2. Construct a distance time graph: 3 sections	2. Construct a distance time graph: 5 sections
3. Complete missing entries in the conversion between minutes, hours and minutes, and tenths of hours	3. Read and interpret a distance time graph: 3 sections	3. Read and interpret a distance-time graph	3. Construct a distance time graph: 3 sections	3. Construct a distance time graph: 5 sections
4. Demo: Know formulas for steady speed, distance and time: formula triangle	4. Read and interpret a distance time graph: 5 sections	4. Read and interpret a distance-time graph	4. Construct a distance time graph: 3 sections	4. Construct a distance time graph: 5 sections
5. Calculate steady speed, distance and time	5. Read and interpret a distance time graph: 5 sections: calculate speed	5. Read and interpret a distance-time graph	5. Construct a distance time graph: 3 sections: return journey	5. Construct a distance time graph: 5 sections: return journey
6. Calculate steady speed, distance and time	6. Read and interpret a distance time graph: 5 sections: calculate speed	6. Read and interpret a distance-time graph	6. Construct a distance time graph: 3 sections: return journey	6. Construct a distance time graph: 5 sections: return journey
7. Demo: Know and use the formula for average speed	7. Understand the meaning of the gradient of a line and a horizontal line	7. Read and interpret a distance-time graph	7. Construct a distance time graph: 3 sections: return journey	7. Construct a distance time graph: 5 sections: return journey
8. Calculate average speed given 2 journey parts		8. Read and interpret a distance-time graph	8. Construct a distance time graph: 3 sections: return journey	8. Construct a distance time graph: 5 sections: return journey
9. Calculate average speed given 3 parts of a journey including a rest			9. Construct a distance time graph: 3 sections: return journey	
10. Convert between m/s and km/h			10. Construct a distance time graph: 3 sections: return journey	
11. Solve mixed problems with speed, distance and time				
12. Solve mixed problems with speed, distance and time				