**OLYMPIC PROBLEMS:**

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1. It takes athletes 45 minutes to travel to the Arena from the Olympic Village. If their event starts at 09h30, what time do they need to leave?
2. A runner takes 4 minutes 35 seconds to run once around the track. How long will it take him to go around three times?
3. Six athletes compete in the 800 metres event. Four runners complete the event, but two suffer injuries, with one dropping out half way and the other getting three quarters of the way before stopping. What was the total distance run by all of them together?
4. The following timetable was drawn up for the indoor tennis: Please rewrite the times using the 24-hour clock:

|  |  |
| --- | --- |
| Men’s quarter final 9:15 pm |  |
| Men’s semi-final 8:20 pm |  |
| Ladies’ quarter final 6:45 pm |  |
| Ladies’ semi-final 7:30 pm |  |
| Men’s final 8:50 pm |  |
| Ladies’ final 5:05 pm |  |

1. There was a delay caused by a power failure at the indoor tennis venue. All the events had to be rescheduled, starting 25 minutes later than timetabled. Please calculate the new starting times for all events:

|  |  |
| --- | --- |
| **Old times** | **New times** |
| 9:15 pm |  |
| 8:20 pm |  |
| 6:45 pm |  |
| 7:30 pm |  |
| 8:50 pm |  |
| 5:05 pm |  |

1. Extension: Create your own Olympic event Maths problem and work out the answer. See if you can get your friends to answer it correctly – challenge the class!

**OLYMPIC PROBLEMS (2)**

Sally and Peter have tickets to attend the sprint event at the Olympic Games. They need to be in their seats at the Arena by 09h00. There are two buses which they could take from their street. This is the bus timetable:

|  |  |  |  |
| --- | --- | --- | --- |
| 307 |  | 419 |  |
| Smithfield | 08h00 | Smithfield | 08h07 |
| Green Street | 08h09 | Old Town | 08h13 |
| Old Bull Inn | 08h14 | River Walk | 08h26 |
| Town centre | 08h25 | Tavern Road | 08h34 |
| Arena | 08h38 | Arena | 08h51 |

1. Sally takes the 419 bus, but it breaks down at Tavern Road. She will have to walk the rest of the way – how long has she got?
2. Peter takes the 307 bus and arrives at the Arena on time. The first event has been delayed by 20 minutes. How long a wait does he have?
3. If Sally started her journey at River Walk, how long would she spend on the bus?
4. How much earlier will the 307 reach the Arena than the 419?
5. Peter catches the 307 at Green Street, but leaves the bus at the Town Centre, as he fancies a walk. How long a bus journey has he had? How long has he got for his walk before he’s late for the event?
6. Extension: Create your own Olympic Timetable problem and work out the answer. See if you can get your friends to answer it correctly: challenge the class!

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