Wednesday - Week 4 Short Division - ANSWERS

Level I

1)	Course	Total Race Length (metres)	Number of Laps	Lap Length (metres)
	Goldrock	9375	5	1875
	Badcopse	7612	11	692
	Capse	8743	7	1249
	Toby's Tor	9711	13	747



Level 2

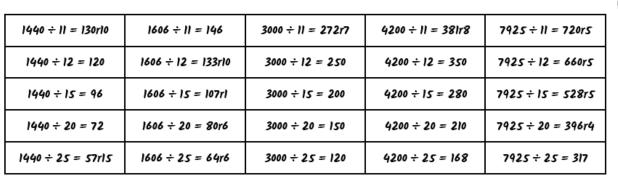
 Accept an explanation that shows that Fernando has incorrectly divided 21 (hundreds) by 11 to equal 2 with one remainder. He then exchanged a remainder of 1 (hundreds) into 10 (tens) and regrouped this in the tens column. The correct answer should be 196.



2) Accept any correct explanation that shows that Daniel is incorrect. For example, 3000 ÷ 14 = 214 r4. As there is a remainder of 4, this means that he has completed 214 full laps and he will be four minutes (out of 14) into his next lap at the end of the 50 hours. Daniel has incorrectly rounded his answer up to the next whole number. His answer should be 214 as he did not complete the 215th lap.

Challenge

1) Prediction reasoning might include spotting multiples of 5 or 10, or identifying odd and even numbers.





 Organisers for a race must decide how to organise the seats. Organise the seats in three different ways choosing a number of rows (divisor) and a number of seats (dividend) from the lists. Predict whether your answer will have a remainder or not. Can you explain your reasons? Finally, calculate how many seats will be in each row.

Number of Rows	Number of Seats	
11	1440	
12	1606	
15	3000	
20	4200	
25	7925	

Number of Rows	Number of Seats	Remainder Prediction	Final Calculation

