



Learning Outcome:

Fluently divide multi-digit numbers using the standard algorithm
CCSS Standard.

6.NS.B.2

- 1 Find $396 \div 18$ using an area model.

$$10 + \boxed{} + \boxed{} = \boxed{}$$




18	180	180	36
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- 2 Find the quotient and the remainder.

$$\begin{array}{r} 38 \overline{) 666} \\ - 380 \leftarrow 10 \times 38 \\ \hline 286 \\ - 266 \leftarrow 7 \times 38 \\ \hline 20 \end{array}$$

Quotient ____ Remainder ____

- 3 Find the number of people who were in the audience for the race in the last two years.

Year	Total money earned from tickets 	Price of 1 ticket 	Number of people 
2018	\$143,750	\$125	
2019	\$198,750	\$150	

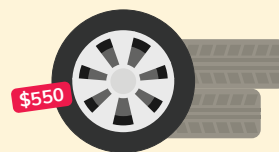
- 4 The total budget for buying tires for the race is \$9,350. If the price of 1 set of tires is \$550, then how many sets of tires the team can buy?

a) 16

b) 17

c) 18

d) 19



- 5 Consider the length of each lap to be 1,210 m and complete the table.

Driver	Total distance covered (m)	Number of complete laps
Robert	16,980	
Tracy	18,175	



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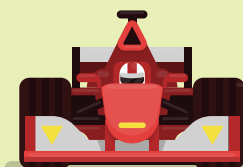
To have a better idea on what to expect in a race you have to look at the performance of the drivers in past races. In the table below is data on last year's performance. Fill the table.

1 The length of each lap is 31 km.

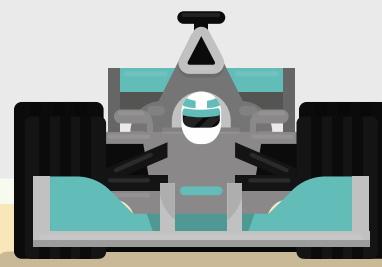
Driver	Total distance covered (in km)	Number of complete laps	Extra distance covered of the unfinished lap (in km)
James	1,367		
Charlotte	1,231		
Amelia	1,364		
Lucas	1,333		
Matteo	1,394		
Isabella	1,273		
Jackson	1,183		
Joshua	1,241		
Naomi	1,395		
Mia	1,305		



2 Winner of the race:



3 Number of complete laps finished by the winner:



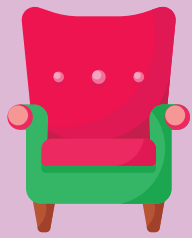
4 finished last.

5 Number of complete laps finished by the racer who finished last:



You are in charge of distribution of tickets for the race this year. There are 4 different types of seats in the stadium offering different services to the audience. You can only allow a certain number of people for specific seats. Design a seating plan such that you can generate revenue and the audience gets to use the various arrangements

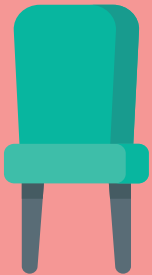
Number of fans that are expected for the race : Between 1700 and 1800



Type of seat	Maximum revenue that can be earned	Minimum revenue that can be earned	Price of 1 ticket	Number of audience members allowed	Revenue generated
Executive	\$150,000	\$112,500	\$1250		



Type of seat	Maximum revenue that can be earned	Minimum revenue that can be earned	Price of 1 ticket	Number of audience members allowed	Revenue generated
Front row	\$237,500	\$171,000	\$950		



Type of seat	Maximum revenue that can be earned	Minimum revenue that can be earned	Price of 1 ticket	Number of audience members allowed	Revenue generated
Middle row	\$487,500	\$375,000	\$750		



Type of seat	Maximum revenue that can be earned	Minimum revenue that can be earned	Price of 1 ticket	Number of audience members allowed	Revenue generated
Balcony	\$450,000	\$360,000	\$450		

Total revenue generated:

Number of fans in the stadium: