

# **Diving into Mastery Guidance for Educators**

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

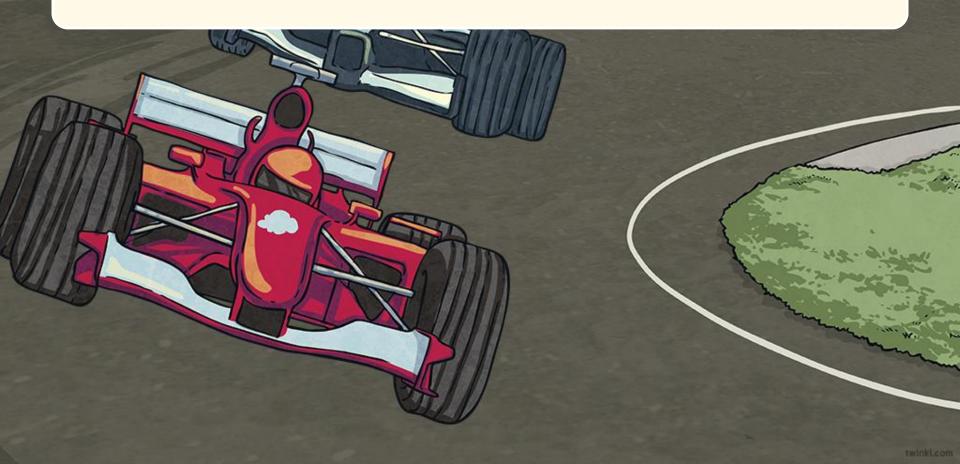


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

# Aim

• Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.



Diving



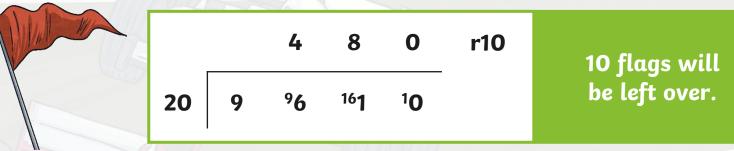
# How many seats are in each row of each of the grandstands?

Grandstand	Total Number of Seats	Number of Rows	Number of Seats per Row		
Spa Straight	2376	12	198		
Bookets	5100	15	340		
	1 9 8		3 4 0		
12 2 2	<sup>2</sup> 3 <sup>11</sup> 7 <sup>9</sup> 6	15 5 5	1 60 0		

#### Diving

The team has 9610 flags to give out to fans at twenty races.

#### How many flags should they take to each race? Will there be any flags left over?



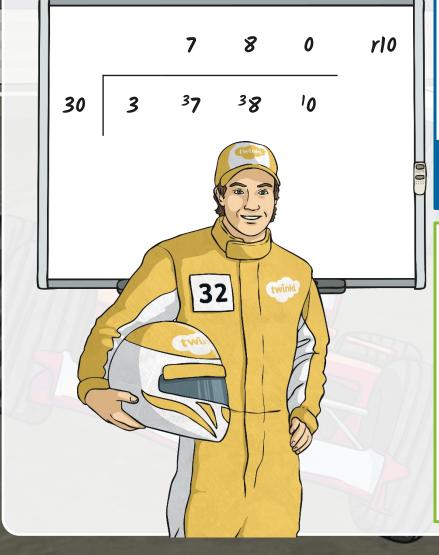
#### Bolts are packed in boxes of 15.

#### How many boxes will be needed if the team needs 2466 bolts for the season?

				2/3			
			1	6	4	r6	165 boxes will
1	15	2	² <b>4</b>	<sup>9</sup> 6	<sup>6</sup> 6	be needed.	

Deeper





Michael has driven 3780 laps of Toby's Tor Circuit. Each race is 30 laps long. Michael carries out the short division below to work out how many races he has completed.

Explain Michael's mistakes and work out the correct answer.

Michael has written the remainder in the answer space and has positioned the answers to be exchanged in each column. 37 (hundreds) divided by 30 gives one (hundred) and 7 (hundreds) to be exchanged and regrouped as 70 (tens).

37

2 6

30

3

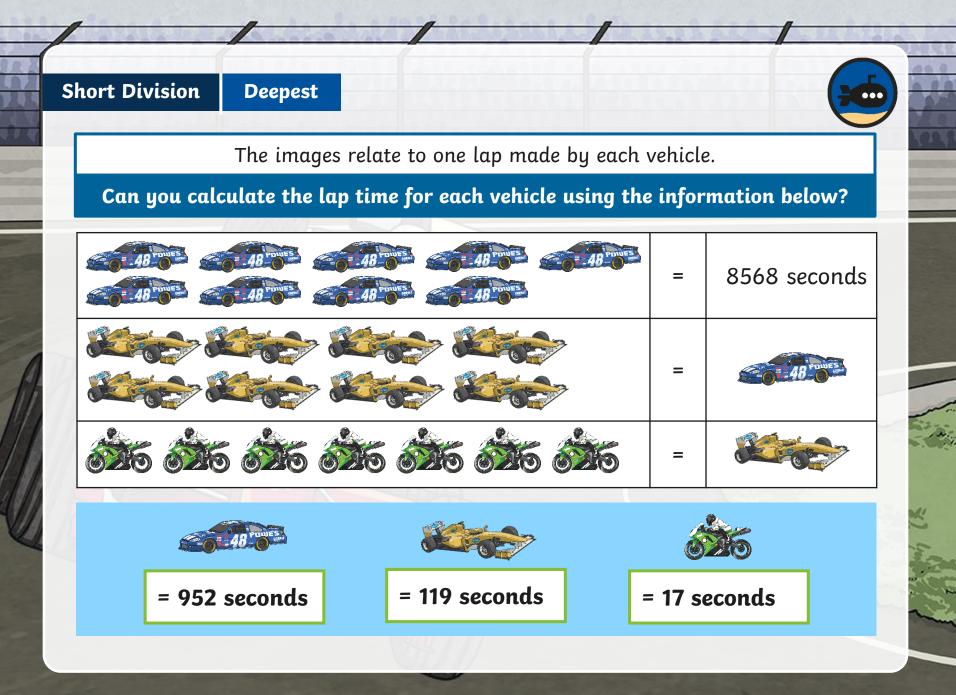
180 78

Deepest

Organisers of a race have seat numbers and possible rows in the list below.

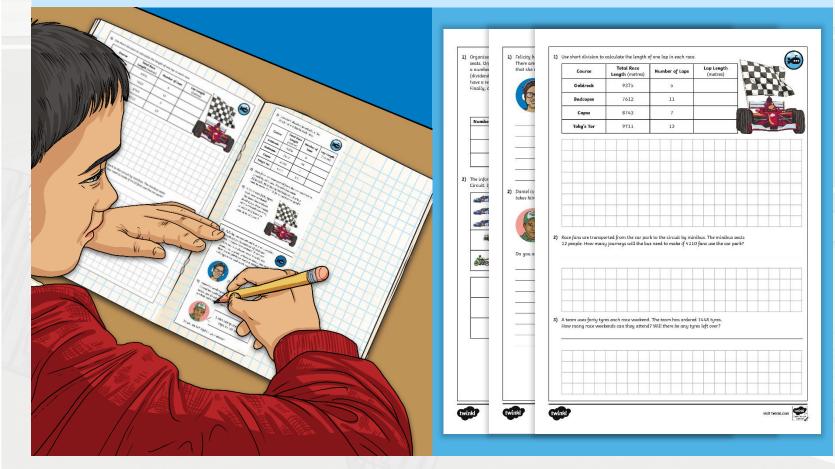
Can you find three ways of organising the seats into rows that will leave no remainders? Explain how you calculated your answer.

T
U Contraction
6
<sup>7</sup> 2



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# Dive in by completing your own activity!

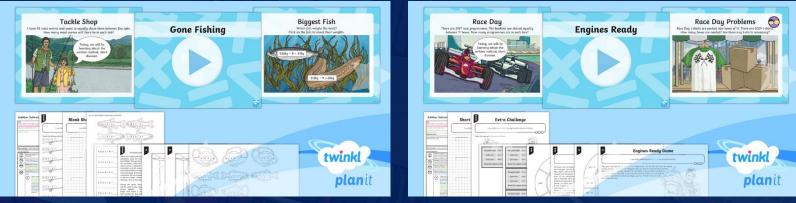


# **Need Planning to Complement this Resource?**

# **National Curriculum Aim**

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.

# For more planning resources to support this aim, <u>click here</u>.



Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.



