### Discussion Problems Step 3: Add 3-Digit and 1-Digit Numbers

#### National Curriculum Objectives:

Mathematics Year 3: (3C1) Add and subtract numbers mentally, including three-digit number and ones

### About this resource:

This resource has been designed for pupils who understand the concepts within <u>this step</u>. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More Year 3 Addition and Subtraction resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.



1. Judith is making number sentences to practise exchanging ones and tens. Explore all the possible addition number sentences that can be made using the digit cards below, where one exchange is needed. 5 6 Find 2 possible addition number sentences where two exchanges are needed. DP 2. Class 3B earn table points from Miss Binns. The table points they start with on Monday and end with on Friday are shown in the two tables below. Miss Binns' rules: **Monday Morning Friday Afternoon** Lions 451 Lions 481 No more than 9 points per table each day. 387 Tigers Tigers 415 Leopards 409 Leopards 440 No table should receive the same daily total during a week. **Panthers** 424 **Panthers** 450 Complete the grid to show the number of table points they could have received each day. Day Mon Tues Weds Thurs Fri Table Name Lions 8 5 9 Tigers 7 9 3 Leopards 9 **Panthers** 6

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Discussion Problems – Add 3-Digit and 1-Digit Numbers – Year 3

1. Judith is m	aking nu	mb	er sentences	to practi	lise exchanging ones and tens.
Explore all the cards below,	-				ences that can be made using the digit
	6		5		3 9
There are fou					
653 + 9;					
639 + 5; 539 + 6,	563 + 9		569 + 3;		
539 + 6, 369 + 5;					
935 + 6;			337 <b>T</b> 0,		
Various answ 2. Class 3B ec	ers, for e	exan poi	nple: 395 + 6 nts from Miss	and 396 Binns. Th	he table points they start with on the two tables below.
Monday Morning			Friday Afternoon		Miss Binns' rules:
Lions	451		Lions	481	No more than 9 points per table
Tigers	387	1	Tigers	415	each day.
Leopards	409	1	Leopards	440	No table should receive the
Panthers	424	1	Panthers	450	same daily total during a week.
Complete the day. <mark>Various</mark>				of table	e points they could have received each

Day Table Name	Mon	Tues	Weds	Thurs	Fri
Lions	6	8	7	5	4
Tigers	7	3	4	5	9
Leopards	3	5	9	8	6
Panthers	1	6	3	7	9

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