DEEPENING UNDERSTANDING ANSWER SHEET

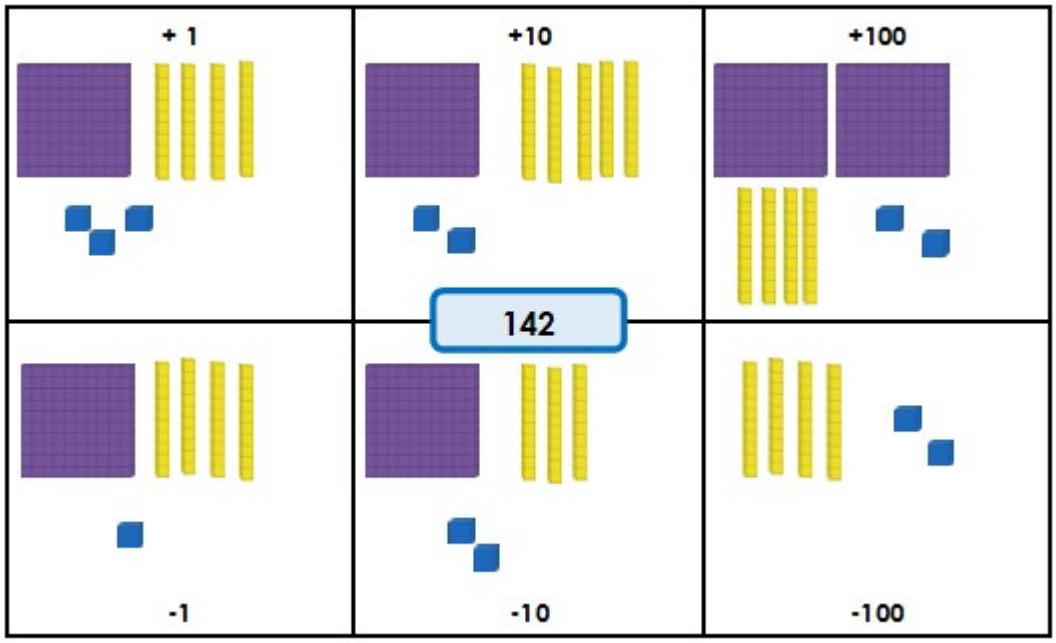
YEAR 3/4 PIM – 1, 10, 100 MORE OR LESS

Fluency 1

	33	
42	43	44
	53	

	68	
77	78	79
	88	

Fluency 2



Fluency 3

541

Fluency 4

Number	1 more	10 more	100 more
428	429	438	528
599	600	609	699
835	836	845	935

Number	1 less	10 less	100 less
377	376	367	277
239	238	229	139
707	706	697	607

Reasoning 1

Modelled DAB Reasoning Response

D – You do not need to do every calculation.

A – You only need to subtract 100.

B – You do not need to do the calculations +10 or –10 because they cancel each other out. For example, if 678 – 10 = 668 then 668 + 10 = 678 which gets you back to the original number.

Reasoning 2

Modelled DAB Reasoning Responses

D – Asha's number is 365

A – You have to work backwards from the answer and use the inverse.

B – Starting with the answer (275), we add instead of subtract 100. 275 + 100 = 375. We subtract 10 instead of add 10. 375 – 10 = 365. So the starting number was 365.

Reasoning 3

Modelled DAB Reasoning Response **D**

– The answer is correct.

A – Caleb will have £723 left over.

B – We can show this by doing each calculation:

834 – 100 = 734

734 – 10 = 724

724 – 1 = 723

Reasoning 4

Modelled DAB Reasoning Response

D – I disagree with Jerry

A – If you are adding 10 you will not always only change one digit.

B – Sometimes you will have to change more than one digit when adding ten. This occurs when you have 9 tens and add ten. In these situations you will change the tens to 0 and the hundreds column will change as well. Eg. 93, 103 and 91, 101.

Download our 'DAB' posters to support reasoning in your classroom:

https://www.deepeningunderstanding.co.uk/product/dab-reasoning-posters/

Problem Solving 1

There are many possibilities including:

Ranjit - 304, 233, 401 Millie – 303, 233, 401

Ranjit - 314, 123, 401 Millie - 314, 123, 401

Ranjit – 313, 233, 401 Millie – 303, 233, 401

Pupils should be encouraged to set up a grid and work methodically to find the answers.