



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 3 PIM – HUNDREDS

Fluency 1

A hundred ones are the same as one hundred.

Ten tens are the same as one hundred.

Fluency 2

100, 200, 300

There are 300 coins altogether.

Fluency 3

300	400	500
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500	600	700
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500	600	700
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800	900	1000
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Fluency 4

There are 500 sprinkles altogether.

If there were 2 more donuts there would be 700 sprinkles.

If 2 donuts were removed there would be 300 sprinkles.



Reasoning 1

Modelled DAB Reasoning Responses

D – Ranjit has made a mistake.

A – The number line should not start with 100.

B – The second number on the number track is 300 which means that the box before (the first box) should be 100 less. 100 less than 300 is 200. Therefore the first number on the number track should be 200. Ranjit has the misconception that all number tracks should start at 100.

Reasoning 2

Modelled DAB Reasoning Response

D – Neither of them is thinking of the greater number.

A – Alfie and Caleb are both thinking of the same number.

B – Alfie starts at zero and counts on 7 hundreds, so would have 700. He then counts back 3 hundreds. $700 - 300 = 400$. So the number he is thinking of is 400.

Caleb starts at 300 and counts on 3 hundred. $300 + 300 = 600$. He then counts back 200. $600 - 200 = 400$. Therefore Caleb and Alfie's numbers are both 400.

Reasoning 3

Modelled DAB Reasoning Response

D – Jane is incorrect.

A – One hundred more than nine hundred is not ten hundred.

B – One hundred more than nine hundred is one thousand (1000). Jane has made the mistake as she has carried on counting in ones and saying hundreds. Nine hundreds is the most you can get, you then move onto thousands.



Reasoning 4

Modelled DAB Reasoning Response

D – Sometimes

A – When you count on in hundreds only one digit will change sometimes.

B – Most of the time only one digit changes when counting in hundreds. It will usually be the hundreds column that changes. However, when you get to 9 hundreds, the next hundred will involve changing two columns, the hundreds and thousands column. Eg. 900, 1000 – the hundreds have changed from 9 to 0 and the thousands have changed from 0 to 1.

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

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

Problem Solving 1

There are 3 possibilities:

Jane = 200 Anita = 800

Jane = 300 Anita = 700

Jane = 400 Anita = 600

