



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 5 PIM – COUNT IN POWERS OF 10

Fluency 1

12,345	12,445	12,545	12,645	12,745	12,845
2,615	2,715	2,815	2,915	3,015	3,115
8,756	8,766	8,776	8,786	8,796	8,806
76,543	77,543	78,543	79,543	80,543	81,543
988	1,088	1,188	1,288	1,388	1,488
41,682	41,692	41,702	41,712	41,722	41,732

Fluency 2

$$62,902 + 100 = 63,002$$

$$916 + 100 = 1,016$$

$$31,875 + 10,000 = 41,875$$

Fluency 3

The term to term sequences are:

Counting on in 10s

Counting on in 1,000s

Counting back in 100s

Fluency 4

12, 1,012, 2,012, 3,012, 4,012, 5,012, 6,012

The tenth number will be 6,012



Reasoning 1

Modelled DAB Reasoning Responses

D – The answer is sometimes true.

A – It depends on the starting number.

B – For example; if you count in 10s 100s or 1,000s for zero, then the numbers will end in zero whereas, if you count from a number that is not a multiple of 10, then the answer will not end in zero (12, 112, 212, 312 etc)

Reasoning 2

D – Ranjit is counting back in 1,000s

A - The next 2 calculations are $621,000 - 1,000 = 620,000$ and $620,000 - 1,000 = 619,000$.

B -I know because the 10,000s column must count back 1 each time.

Reasoning 3

Modelled DAB Reasoning Responses

D – Jane is incorrect

A – She will have to move the 100s counter off the chart and move the 1,000s counter up 1 place to 6,000

B – $25,942 + 100 = 26,042$

Reasoning 4

Modelled DAB Reasoning Response

D – Caleb has made a mistake.

A – The sequence should be **32,400... 32,300... 32,200... 32,100... 32,000... 31,900...**

B – Caleb has subtracted 200 from 32,100 instead of 100.

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



Problem Solving 1

	10,201			8912					32,416		
		10,301		9012				42,416			
		10,401			9,112				52,416		
8,601	9,601		10,501			9,212				62,416	
		10,601	11,601		9,312	14,601	15,601				72,416
	10,701			12,601	13,601	9,412		16,601	92,416	82,416	
	10,801				9,512			102,416	17,601	18,601	19,601
1,001		10,901			9,612				112,416		
	11,001			9,712	51,001	61,001			122,416		
11,101		21,001		41,001	9,812		71,001			132,416	111,001
	11,201		31,001			9,912		81,001		101,001	142,416
11,301					10,012				91,001	152,416	

