



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 5 PIM – NEGATIVE NUMBERS

Fluency 1

A -2

B -4

C -2

D -5

Fluency 2

Temperature	Change in Temperature	New Temperature
27°C	+4	31°C
-13°C	+11°C	-2°C
15°C	-19°C	-4°C
21°C	-15°C	6°C
-12°C	+16°C	4°C
18°C	-38	-20°C
-17°C	+16°C	-1°C

Fluency 3

Reykjavik, Moscow, Madrid, Rio De Janeiro

34°C

33°C

39°C



Fluency 4

-£120

Fluency 5

Approximately -1,045m below sea level (1/3 of the height of the mountain)

Reasoning 1

Modelled DAB Reasoning Response

D – The statements are correct

A – $4 - 19 = -15$

$$32 + 12 = 44$$

-18 is closer to 0 than -19

B – Count back **4** to 0 then count back **15** to -15

Count up **32** to 0 then count up **12**,

-18 to 0 = count up 18 but -19 to 0 = count up 19

Reasoning 2

Modelled DAB Reasoning Response

D – The number furthest from zero is the smallest.

A – -18, -12, -8, -4

B – -18 is further from zero (count back 18) then -12 (count back 12). Then negative 8 (count back 8) then -4 (count back 4)



Reasoning 3

Modelled DAB Reasoning Response

D – Darcey is correct

A – Subtracting an even number from an odd number will give an odd answer

B – Examples that show this e.g.

$$9 - 6 = 3$$

$$-11 - 4 = -15$$

$$19 - 8 = 11$$

Reasoning 4

Modelled DAB Reasoning Response

D – Millie is correct

A – Subtracting a bigger number will take you past zero therefore into negative numbers

B – Examples that show this e.g.

$$19 - 20 = -1$$

$$75 - 78 = -3$$

$$32 - 46 = -14$$

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

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



Problem Solving 1

Alfie's closing balance was £38

Date	Credit	Debit	Balance
1st August			Opening Balance: £24
2nd August	£24	-£40	-£16
7th August	-£16	-£78	-£94
12th August	-£94	-£24	-£118
16th August	-£118	+£100	-£18
24th August	-£18	+£90	£72
30th August	£72	-£34	£38
31st August			Closing Balance: £38

