



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 5 PIM – COMPARE AND ORDER NUMBERS TO 1,000,000

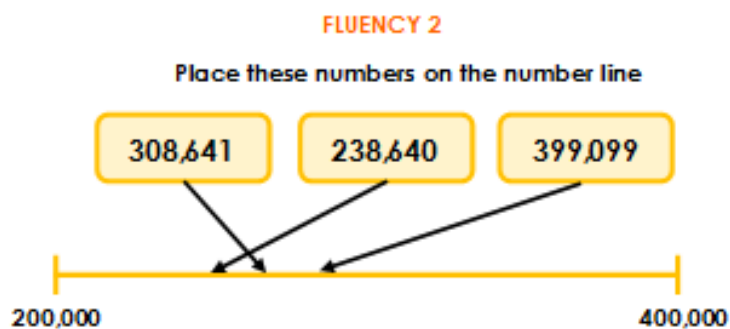
Fluency 1

Children will show an understanding of bigger numbers using PV counters

Descending order = 716,514, 702,310, 124,162, 82,817

Fluency 2

Numbers placed appropriately:



Fluency 3

Correct order = D - 512,345, B - 512,459, A – 512,549, C- 512,945

Fluency 4

Possible responses include:

House A is more expensive than House B because it has more 100 pounds.



Reasoning 1

Modelled DAB Reasoning Responses

D – The answer is sometimes true.

A – The missing number could have 5 or 6 in the 100,000s column.

B – The missing number could be any number between 599,766 and 605,923

Reasoning 2

Modelled DAB Reasoning Responses

D – Darcey has made 2 errors.

A - The sequence should be 103,456, 103,465, 104,789, 104,879, 104,987

B – 103,465 is greater than 103,456 because it has more 10s and 104, 987 is greater than 104,879 because it has more 100s

Reasoning 3

Modelled DAB Reasoning Responses

D – The statement is not correct so I cannot convince you.

A – Number B is greater than number A

B – B is greater than A because it has 800,000 and number A only has 300,000

Reasoning 4

Modelled DAB Reasoning Response

Pupils' responses can should any justifiable difference and similarity.

Examples may include:

Same – both have 900,000 both 6-digit numbers

Difference – they are different numbers, one number is odd, one is even etc.

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

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



Problem Solving 1

The numbers made with 2 counters in ascending order are:

2, 11, 20, 101, 110, 200, 1,001, 1,010, 1,100, 2,000, 10,001, 10,010, 10,100, 11,000, 20,000, 100,001, 100,010, 100,100, 101,000, 110,000 and 200,000

With 3 counters = 3, 12, 21, 30, 102, 111, 120, 210, 300, 1,002, 1011, 1,020 1,110, 1,200, 2,001, 2,010, 2,100, 3,000, 10,002, 10,011, 10,020, 10,101, 10,110, 10,200, 11,001, 11,010, 11,100, 12,000, 20,001, 20,010, 20,100, 21,000, 30,000, 100,002, 100,011, 100,020, 100,101, 100,110, 100,200, 101,001, 101,010, 101,100, 102,000, 110,001, 110, 010, 110,100, 111,000, 120,000, 300,000.

