



DEEPENING UNDERSTANDING ANSWER SHEET

YEAR 1 PIM – PART WHOLE MODEL

Fluency 1

10 more makes the tens digit one greater .

10 less makes the tens digit one less.

Fluency 2

54

+

10

=

64

Fluency 3

$$4 + 10 = 14$$

$$14 + 10 = 24$$

$$24 + 10 = 34$$

$$34 + \underline{10} = \underline{44}$$

$$\underline{44} + \underline{10} = \underline{54}$$

Fluency 4

| Ten less | Number | Ten more |
|----------|--------|----------|
| | | |



Reasoning 1

Modelled DAB Reasoning Responses

D – There is an odd one out.

A –

| | | | | | |
|----|----|----|----|----|----|
| 34 | 44 | 54 | 64 | 74 | 84 |
|----|----|----|----|----|----|

| | | | | | |
|----|----|----|----|----|-----|
| 56 | 66 | 76 | 86 | 96 | 106 |
|----|----|----|----|----|-----|

| | | | | | |
|----|----|----|----|----|----|
| 82 | 72 | 62 | 52 | 42 | 32 |
|----|----|----|----|----|----|

| | | | | | |
|----|----|----|----|----|----|
| 49 | 59 | 69 | 79 | 89 | 99 |
|----|----|----|----|----|----|

B – All of the others are a sequence of 10 more, but the one starting with 82 shows 10 less.

Reasoning 2

Modelled DAB Reasoning Response

D – Never true

A – The ones digit will not change.

B – When changing a number by 10, the tens column changes, not the ones. The ones digit changes when we add or subtract 1.

Reasoning 3

Modelled DAB Reasoning Response

D – Caleb is correct.

A – 10 less than 46 is 36.

B – Asha has put the numbers the wrong way round, she should have 3 tens and 6 not 6 tens and 3.

Darcey has said 10 more, not ten less.



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

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

Problem Solving 1

Marlon has 31p.

Alfie has 41p.

Anita has 31p, the same as Marlon.

Millie has 21p.

Problem Solving 1

The sunflower is 46cm on Tuesday.

It is 56cm on Wednesday.

It is 46cm on Thursday.

