



## DEEPENING UNDERSTANDING ANSWER SHEET

### YEAR 3 PIM – EQUAL GROUPS

#### Fluency 1

Pupils should add apples so there are three in each box.

#### Fluency 2

There are 3 equal groups each with 4 carrots in.

#### Fluency 3

Pupils can draw 3 groups of 5, 5 groups of 3, 2 groups of 6, 6 groups of 2, 1 group of 15 and 15 groups of 1.

#### Fluency 4

There are **4** equal groups with **3** in each group.

There are **12** balloons altogether.

#### Reasoning 1

##### Modelled DAB Reasoning Responses

**D** – The 16 donuts is the odd one out.

**A** – The other two represent 8.

**B** – The first picture is of cubes which can be made into 2 groups of 4. The second one shows  $4 + 4$  which is two groups of 4. The third picture shows 4 groups of 4 and not 2 groups of 4.



## Reasoning 2

### Modelled DAB Reasoning Response

**D** – There are not 10 groups.

**A** – There are 2 groups with 10 in each.

**B** – You can show 20 with 2 groups of 10 or 10 groups of 2. This picture shows 2 groups of 10 and not 10 of 2 like the sentence says.

## Reasoning 3

Responses should show that Marlon is incorrect.

### Modelled DAB Reasoning Response

**D** – Marlon is incorrect.

**A** – 20 cannot be shared equally into 6 groups.

**B** – 20 can be shared into 1,2,4,5 and 10 equal groups.

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

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

## Problem Solving 1

**There are 8 different solutions:**

1 group of 30

30 groups of 1

2 groups of 15

15 groups of 2

3 groups of 10

10 groups of 3

5 groups of 6

6 groups of 5



## Problem Solving 2

There are 9 possible solutions.

There could be 8 packs of 8 cans.

There could be 16 packs of 4 cans.

There could be 1 pack of 8 and 14 packs of 4 cans.

There could be 2 packs of 8 and 12 packs of 4 cans.

There could be 3 packs of 8 and 10 packs of 4 cans.

There could be 4 packs of 8 and 8 packs of 4 cans.

There could be 5 packs of 8 and 6 packs of 4 cans.

There could be 6 packs of 8 and 4 packs of 4 cans.

There could be 7 packs of 8 and 2 packs of 4 cans.

