Fluency 1
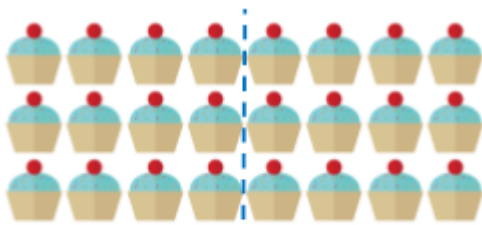
Find half of each set of objects.

The whole is 16.

Half of 16 is 8.

The whole is 24.

Half of 24 is 12.

Fluency 2

$\frac{1}{2}$ of 14 = **7** $\frac{1}{2}$ of 20 = **10**

$\frac{1}{2}$ of 22 = **11** $\frac{1}{2}$ of 30 = **15**

Fluency 3

If I know $\frac{1}{2}$ of 2 = **1** Then I know $\frac{1}{2}$ of 20 = **10**

If I know $\frac{1}{2}$ of 4 = **2** Then I know $\frac{1}{2}$ of 40 = **20**

If I know $\frac{1}{2}$ of 6 = **3** Then I know $\frac{1}{2}$ of 60 = **30**

Reasoning 1

Modelled DAB Reasoning Responses

D – Disagree with Darcey.

A – She did not have 16 sweets to start with.

B – She has 9 sweets left. If this is half, it means that she must have eaten the same amount (9). 9 + 9 = 18

18	
9	9

Reasoning 2

Modelled DAB Reasoning Response

D – Always true.

A – Halving is always the same as dividing by 2.

B – When you halve you divide the whole into 2 equal parts.

Half of 6 = 3   6 ÷ 2 = 3

Reasoning 3

Modelled DAB Reasoning Response

D – This one is the odd one out:

A – It is the odd one out because it does not show half shaded.

B – The other shapes all show half shaded in yellow. 3 out of 6 is

Shaded. 4 out of 8 is shaded. This shape has 6 out of 10 shaded.

To be half, it needed to have 5 out of 10 shaded.

Reasoning 4

D – Asha can't share the sweets equally

A – This is because there is not an even number of sweets.

B – Asha has 11 sweets. She cannot share them equally between 2. They will have 5 each and there will be one sweet left over that they could try to split in half.
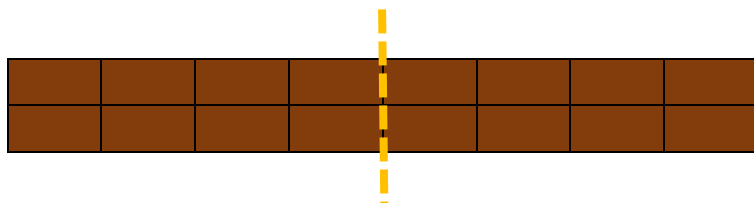

Download our 'DAB' posters to support reasoning in your classroom:

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

Problem Solving 1

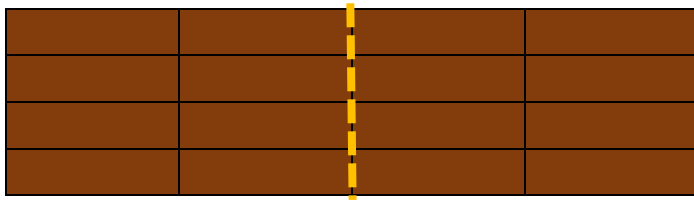Marlon's chocolate bar has 16 pieces. It could look like this, (2 rows of 8):

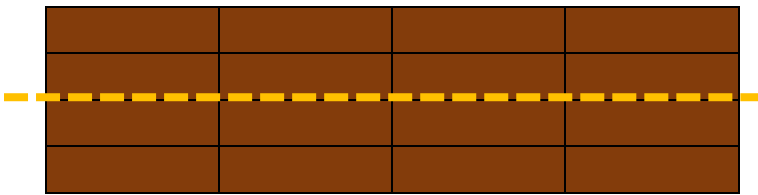He could split it in half vertically.

Or he could split it in half horizontally.

Or his chocolate bar could look like this: (4 rows of 4)

He could split it in half vertically.

Or he could split it in half horizontally.

The children may suggest other ways, as long as the bar is being split into 8 and 8 or two halves, this is correct.

You could encourage them to draw their ideas onto squared paper.