Homework/Extension Step 10: Equivalence of Half and Two Quarters

National Curriculum Objectives:

Mathematics Year 2: (2F1a) <u>Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity</u> Mathematics Year 2 : (2F2) <u>Recognise the equivalence of 2/4 and 1/2</u>

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Circle half and two quarters of a group of objects and complete a sentence. Using only images.

Expected Circle half and two quarters of a group of objects and complete a sentence. Using images and text.

Greater Depth Circle half and two quarters of a group of objects and complete a sentence. Using images arranged at random.

Questions 2, 5 and 8 (Varied Fluency)

Developing Use <, > or = to complete a sentence using only images for support. **Expected** Use <, > or = to complete a sentence using some images and some text for support.

Greater Depth Use <, > or = to complete a sentence using number lines for support.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Identify and explain a mistake when finding half and two quarters of a group of objects. Scaffolding provided.

Expected Identify and explain a mistake when finding half and two quarters of a group of objects using images for support.

Greater Depth Identify and explain whether a method is the most efficient when finding half and two quarters of a group of objects. Using images arranged at random.

More <u>Year 2 Fractions</u> resources.

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Homework/Extension – Equivalence of Half and Two Quarters – Teaching Information

Equivalence of Half and Two Quarters



Homework/Extension - Equivalence of Half and Two Quarters - Year 2 Developing

Equivalence of Half and Two Quarters



Homework/Extension – Equivalence of Half and Two Quarters – Year 2 Expected

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Developing

1. $\frac{1}{2}$ of 14 = 7; $\frac{1}{2}$ of 16 = 8; $\frac{2}{4}$ of 14 = 7; $\frac{2}{4}$ of 16 = 8 2. A = $\frac{1}{2}$ of 26 = $\frac{2}{4}$ of 26; B = $\frac{1}{2}$ of 22 = $\frac{2}{4}$ of 22

3. Ben has correctly found half of the bricks but has incorrectly circled two quarters. He has circled two columns of bricks but he should have circled two rows.

Expected

4. $\frac{1}{2}$ of 12 = 6; $\frac{1}{2}$ of 18 = 9; $\frac{2}{4}$ of 12 = 6; $\frac{2}{4}$ of 18 = 9 5. A = $\frac{2}{4}$ of 20 = $\frac{1}{2}$ of 20; B = $\frac{2}{4}$ of 24 = $\frac{1}{2}$ of 24

6. Annie has found two quarters of the marbles correctly because there are 36 in total.She has then found half of the two quarters and not the whole amount. Half is also 18 not9.

Greater Depth

7. $A = \frac{1}{2}$ of 24 = 12; $\frac{2}{4}$ of 24 = 12; $B = \frac{1}{2}$ of 30 = 15; $\frac{2}{4}$ of 30 = 158. $A = \frac{2}{4}$ of $22 = \frac{1}{2}$ of 22; $B = \frac{2}{4}$ of $26 = \frac{1}{2}$ of 26

9. Chris has found a method that will get the right answer but it is not efficient. As half and two quarters are equivalent, once he has halved the toys he already has the answer for half. He does not need to half this and multiply by 2.



Description - Equivalence of Half and Two Quarters ANSWERS