Fractions, Decimals and Percentages Activities for Flexitable™

ACTIVITY 1 – DOUBLING AND HALVING AS FRACTIONS

AIMS OF THE LESSON	2023-2024 CURRICULUM FRAMEWORK MAPPING
We are exploring halves and quarters using amounts of money.	**Y1 Number – Fractions:** Recognise and use ½ and ¼ as parts of shapes, sets and amounts

RESOURCES:

- Flexitable™ per student or group
- Plastic coins (pennies) for each student/group (they will need at least 20p)
- Paper or mini whiteboards for notetaking

TASK

Set the scene:

The students will use pennies to help them link halving and doubling, to fraction notation.

Steps

- Give the students 8 pennies, ask them to place them into two equal piles. Discern the number in each pile and link to halving/doubling. e.g. double 2 is 4, half 4 is 2.
- Ask the students to record: ½ of 8p = 4p.
- Ask the students to make the two piles into four equal piles and establish that one pile is a quarter or fourth and to record: ¼ of 8p = 2p. Now ask them to look at the bottom number of their fractions and to link ½ as dividing into two and ¼ as dividing into four.
- Give the students 12 pennies and ask them to use their Flexitable™. First, place the pennies in the ½ and 50% sections, reminding them that these mean the same thing. Establish that each section has six pennies. Then move to the ¼ and 25% sections and agree that each has three. Ask what they notice about two quarters and one half. Repeat with other multiples of four under 20.

CHECKING LEARNING	ADAPTING THE TASK
Pose the following questions: • I have some sweets, I ate half of them. I ate 5. How many sweets did I start with? How did you work that out? • How can you work out a quarter of 12? Is there another way? Discuss how to link to fractions more widely and open the context to whether students understand the concepts of half and quarter. Splitting the class into half and quarter may be a way to help with this.	Ask these students to work out halve and quarters of numbers to 40. For students who are more confident, they can split into different fractions, talk about 2 or 3 quarters etc. For students who find it tricky, using fraction rods may be helpful.

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