**Mathematical Diagnostic Assessment: Fractions**

Name …………………………………………….. Year group …….. Date ………

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| **Half (quarter) of a shape*** Given different shapes with folds (not all that fold into halves), can you show me which have been folded in half?
* How do you know these are folded in half?
* Can you fold this square (triangle, rectangle, circle, etc) in half (quarters)?
* Strips of paper in different lengths, can you fold them in half (quarters)?
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| **Counting in halves / quarters*** How many halves make one (two, three, etc) whole?
* How many halves do you have if you have two and a half apples?
* How many quarters make one whole one?
* Can you count in halves (quarters)?
* If one quarter of a pizza is eaten, what fraction of the pizza is left?
* If one quarter of children go home from school for lunch, what fraction of children have lunch at school?
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| **Symbolisation*** How do you record one half (one quarter) in symbols?
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| **Half / quarter of a quantity*** Show me half of these fish (start with 6 fish, build up quantity as appropriate) Pupil to use chosen objects to show how they are working out their answer.
* Show me one quarter of….
* Shade half of a shape, when the shape is divided into an even number of equal pieces.
* Shade one quarter of a shape when the shape is divided into 8 (12, 16, 20, etc) pieces.
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| **Fractions of a quantity*** Use a bar model to show half of eight (10, 12, 18, etc).
* Pupils to use objects to access this if necessary.
* Use a bar model to show one quarter of 8 (12, 16, 20, etc).
* If half of class are boys, and there are ten boys. How many children are there in the class?
* One quarter of the cookies are chocolate and there are five chocolate cookies. How many cookies are there altogether?
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| Summary notes |