Assessment: Number sequence: Can you find the fraction?

Assessment task

Students will use their understanding of improper fractions and equivalence to determine the value of a number.

Guidance:

Assessing student understanding of fractions may be supported with the use of materials, drawings, number lines or number strips and region models. Encourage students to draw on their understanding of fractions beyond part-whole methods.

The assessment of student understanding for this task may include:
- identifying the value of a fraction
- using a number line
- finding an equivalent fraction
- ordering fractions

To complete the task, provide time for students to firstly consider the problem and then think about ways to model their solution mathematically. Note whether students can identify a fraction of a collection and compare this with an improper fraction.

Credit

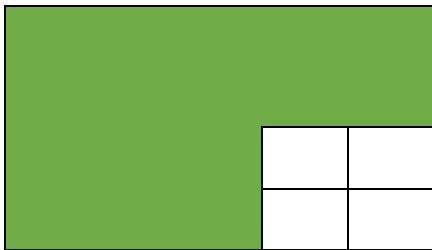This task was adapted from NZ Maths: Fraction Number Lines

https://nzmaths.co.nz/resource/fraction-number-lines

Number Sequence: I spy fractions!

Task:

1. Look carefully at these two fractions:

$$\frac{8}{4}$$

2. Are there any related fractions? Can you convert a mixed number to an improper fraction?

3. Place each fraction in order on a number line. Include the range on your number line. Explain how you decided the order.

4. If ? /4 is a number between 2 and 4, which numbers might this represent? Have you found all the possibilities? Explain your thinking.

$$\frac{?}{4}$$

2   3   4