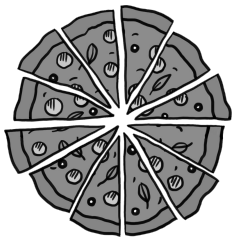
Name: _____ Worksheet

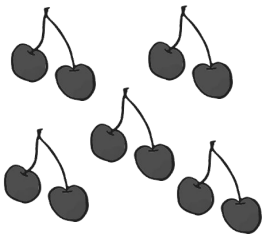
Use representations to describe and compare fractions

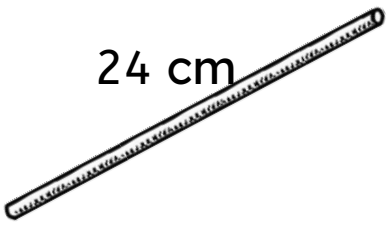
Task A: Identifying half

1) Identify half of these items and explain how you know using the stem sentences.

Record the fractions that are the same as one half.







The whole is **divided** into ___ **equal parts**.

I have ___ of those parts.

The fraction is ___

2) Which fractions are equal to one half?

Use Sofia's generalisation to explain your thinking.

$\frac{4}{8}$ $\frac{1}{2}$ $\frac{5}{10}$ $\frac{15}{30}$

$\frac{3}{6}$ $\frac{24}{50}$ $\frac{3}{4}$ $\frac{50}{100}$ $\frac{3}{7}$

When a fraction represents one half, the **numerator** is half the **denominator**

Task B: Creating fractions with the same value

1) These fractions are not equal to one half.

Use Sofia's generalisation to change the **numerator** or the **denominator** of these fractions so that they are equal to $\frac{1}{2}$

Can you do it in more than one way for each fraction?

a) $\frac{3}{4}$ b) $\frac{3}{7}$ c) $\frac{4}{9}$ d) $\frac{6}{18}$ e) $\frac{24}{50}$

When a fraction represents one half, the **numerator** is half the **denominator**.

2) a) Fill in the gaps to create two fractions that have the same value

$$\frac{6}{\square} = \frac{\square}{6}$$

b) Use Jun's generalisation to fill in the gaps and create two fractions which both represent one third.

When a fraction represents one third, the **denominator** is three times the **numerator**.