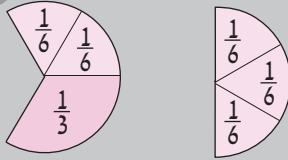


A. Teaching basic fraction concepts and operations using arc sectors

4. Addition of fractions with equal denominators or such that one denominator is a multiple of the other

Group work

Examples

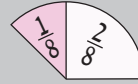


- Put on your desk sectors of $\frac{1}{3}$ and sectors of $\frac{1}{6}$. Select a few of these sectors and arrange them side by side.
- Write exercises corresponding to your constructions and solve them using the sectors.

Adding fractions with equal denominators

Example

$$\frac{1}{8} + \frac{2}{8} = \frac{3}{8}$$



Take a few sectors of fractions with denominator 5, and write addition exercises with results as follows:

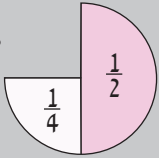
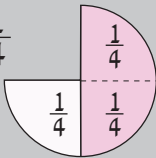
- The result is smaller than 1 _____
- The result equals 1 _____
- The result is greater than 1 _____

Adding fractions such that one denominator is a multiple of the other

Example

$$\frac{1}{2} + \frac{1}{4} = \square$$

How do we solve this exercise using sectors?

- We arrange the sectors 
- We cover $\frac{1}{2}$ with sectors of $\frac{1}{4}$ 
- We can describe what we did here using mathematical language: $\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$