

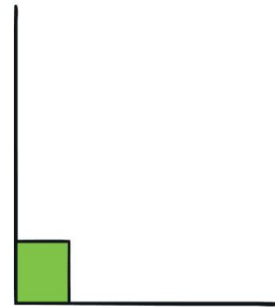
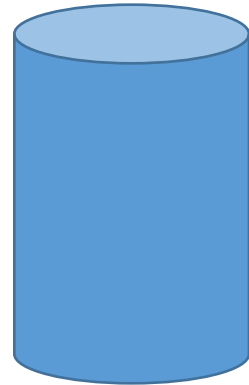
Year 3 Week 10 Lesson 5

Can I add and subtract fractions with the same denominator?

Fast Five

1. $37 \div 4 =$
2. $102 \times 10 =$
3. $774 - 662 =$
4. What shape is this?

5. What angle is this?



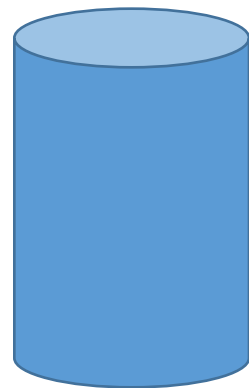
Fast Five

1. $37 \div 4 = 9r1$

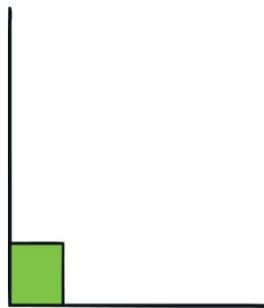
2. $102 \times 10 = 1020$

3. $774 - 662 = 112$

4. What shape is this? **Cylinder**



5. What angle is this? **Right angle**



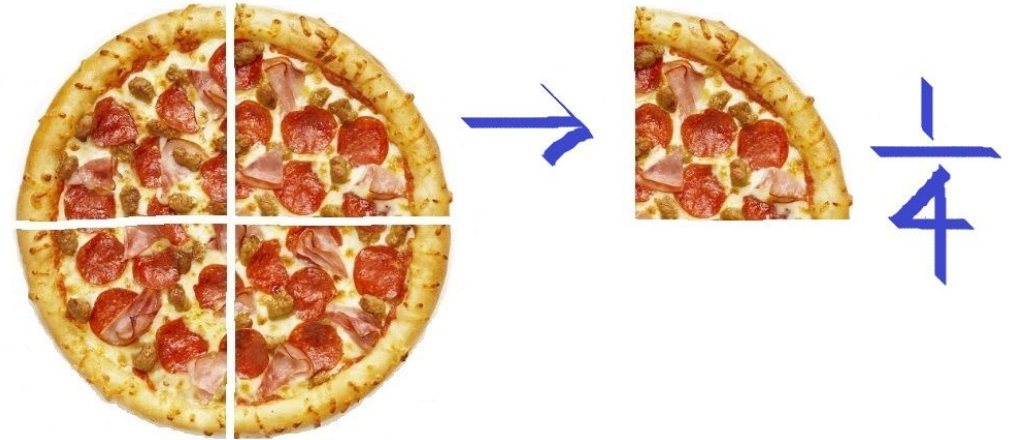
Fractions have two parts

1

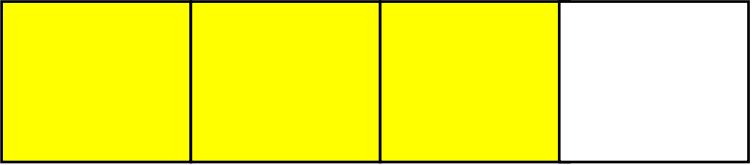
The top number is the **numerator**. This number tells us how many equal parts of the whole have been taken.

4

The bottom number is the **denominator**. This number tells us how many equal parts the whole is split into.



These are all different ways of showing $\frac{3}{4}$.



$$\frac{3}{4}$$

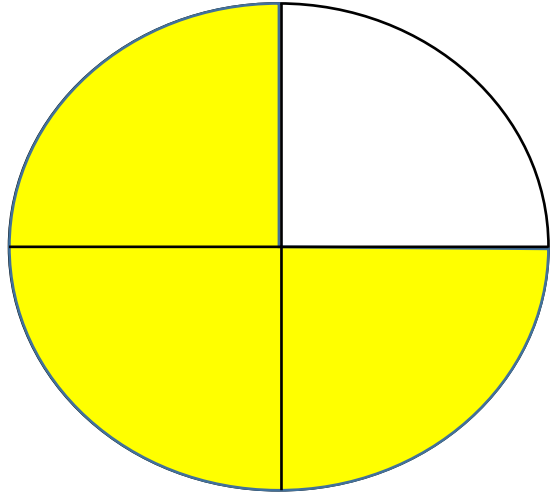
Numerator (number of parts shaded)

3

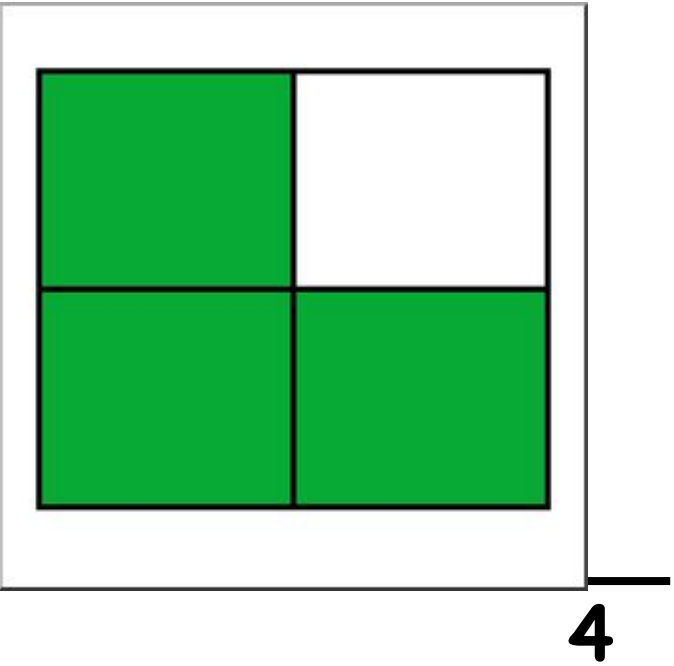


4

Denominator (4 parts)



$$\frac{3}{4}$$

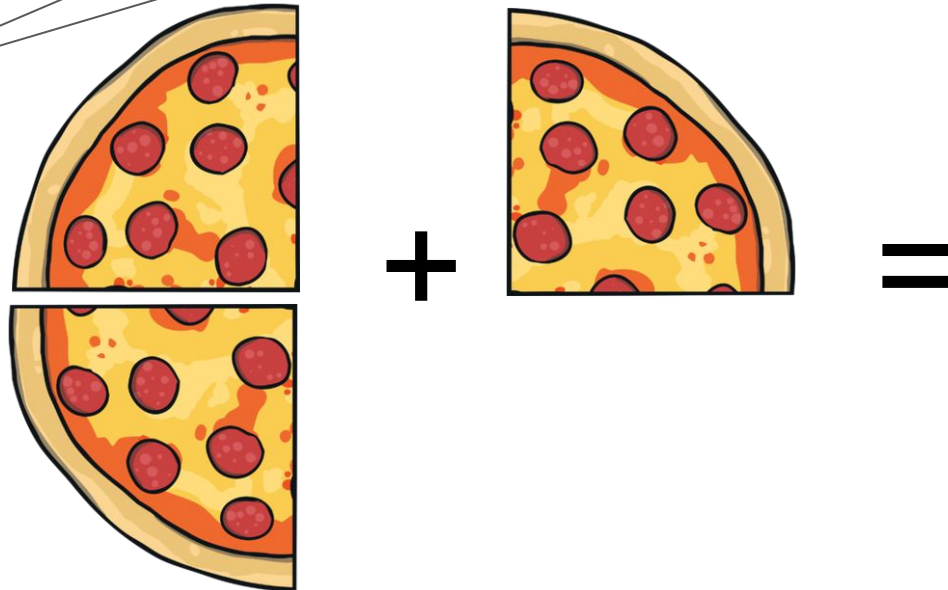


Adding Fractions with the same denominator

$$\underline{2} + \underline{1} =$$

$$4 \quad 4 \quad 4$$

If the denominator is the same in both fractions, then it stays the same in the answer.

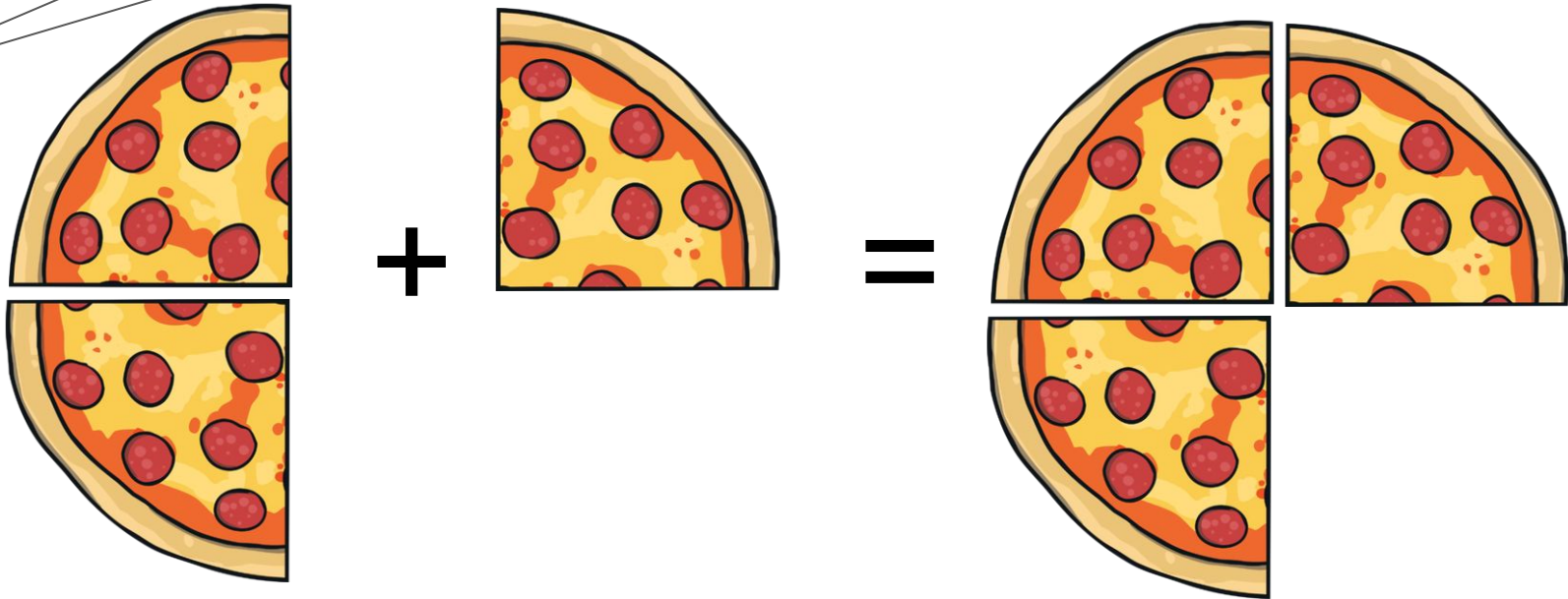


Adding Fractions with the same denominator

You then just add the numerators as you would normally.

$$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$

If the denominator is the same in both fractions, then it stays the same in the answer.



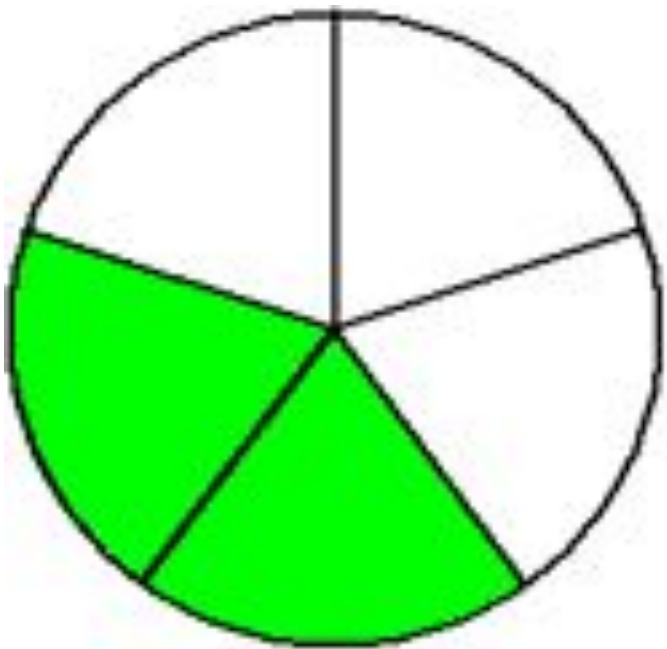
$$\frac{1}{5} + \frac{3}{5} = \frac{1+3}{5} = \frac{4}{5}$$



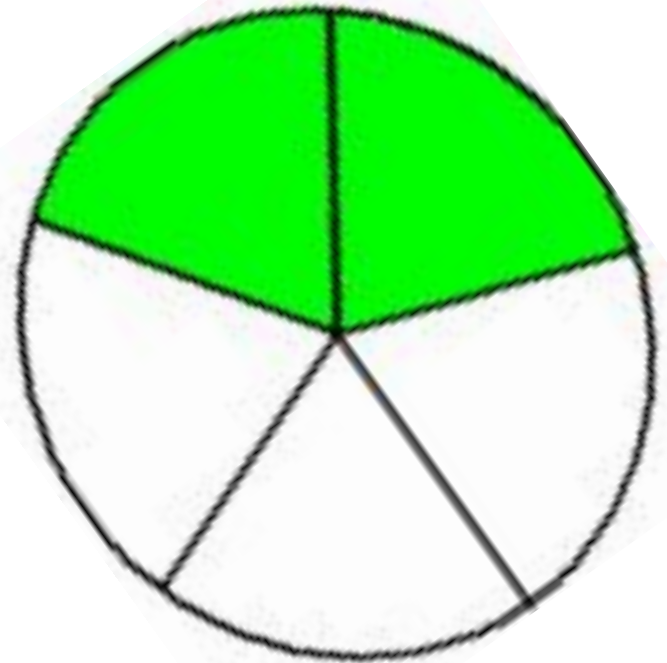
Try this one:

$$\frac{2}{5} + \frac{2}{5} =$$

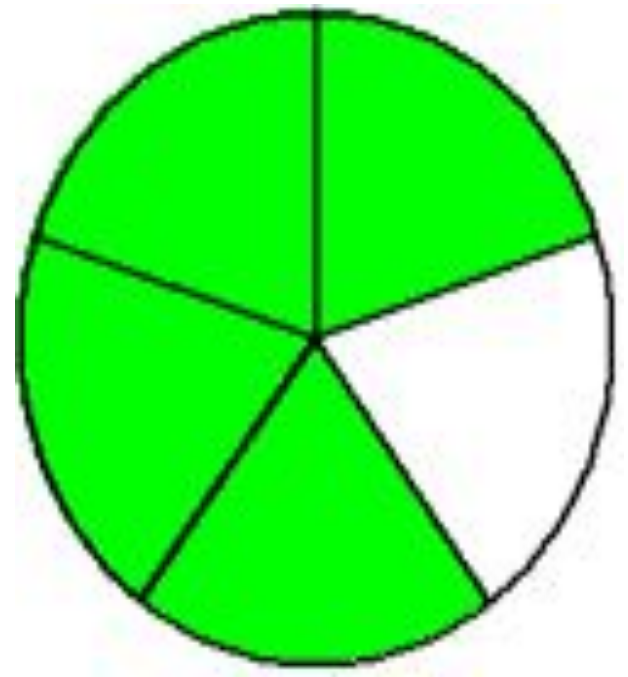
$$\frac{2}{5} + \frac{2}{5} = \frac{4}{5}$$



+



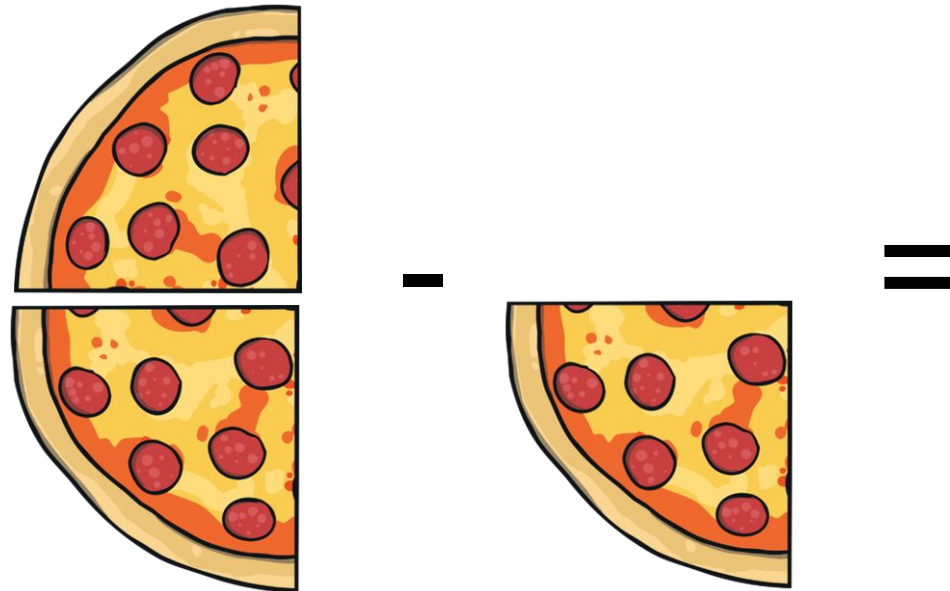
=



Subtracting Fractions with the same denominator

$$\frac{2}{4} - \frac{1}{4} = \frac{\quad}{4}$$

If the denominator is the same in both fractions, then it stays the same in the answer.

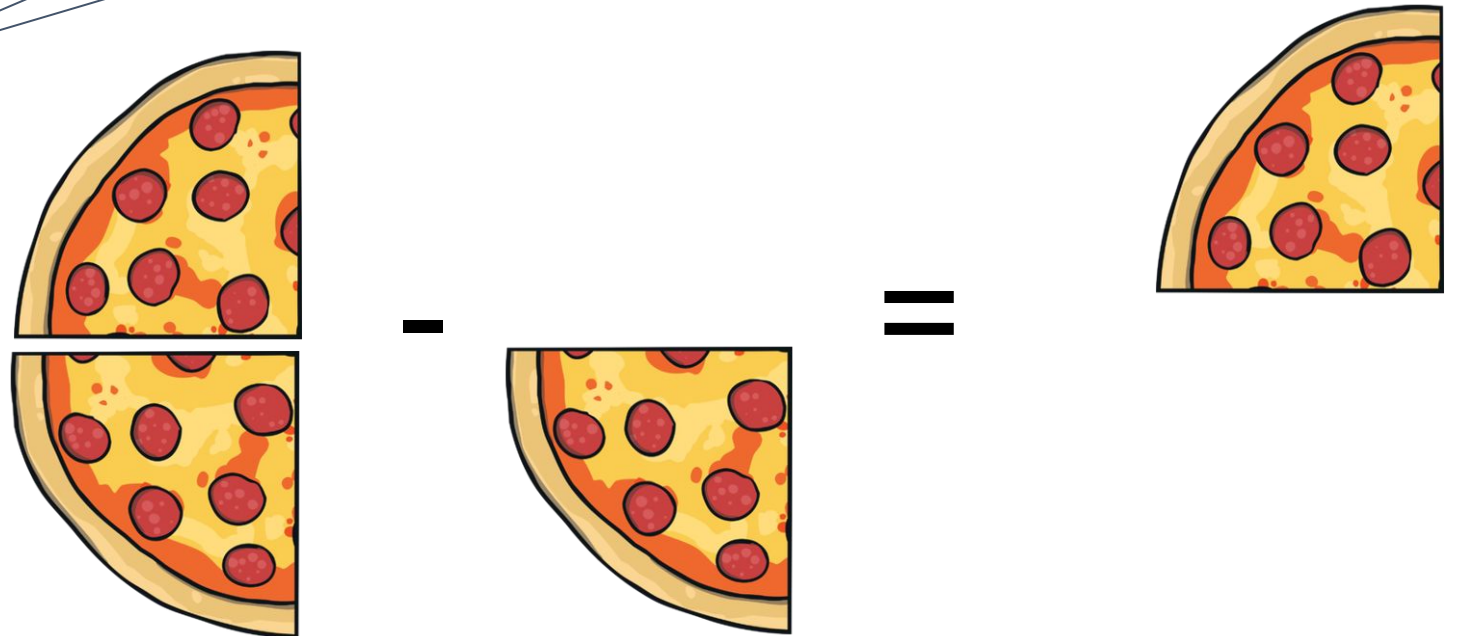


Subtracting Fractions with the same denominator


You then just subtract the numerators as you would normally.

$$\frac{2}{4} - \frac{1}{4} = \frac{1}{4}$$

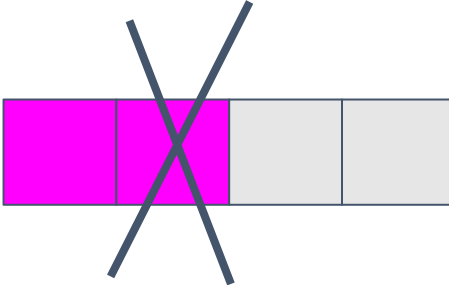
If the denominator is the same in both fractions, then it stays the same in the answer.



Subtracting fractions with the same denominator

$$\frac{2}{4} - \frac{1}{4} =$$


The diagram illustrates the subtraction of $\frac{1}{4}$ from $\frac{2}{4}$. It shows two horizontal bars, each divided into four equal segments. The first bar represents $\frac{2}{4}$ and has two pink segments followed by two grey segments. The second bar represents $\frac{1}{4}$ and has one pink segment followed by three white segments. A minus sign is placed between the two bars.

$$\frac{2}{4} - \frac{1}{4} =$$


The diagram shows the same two bars as above, but with a large grey 'X' drawn over the entire first bar, indicating that this method is incorrect.

$$\frac{1}{4} =$$


The diagram shows the result of the subtraction, $\frac{1}{4}$. It is represented by a single horizontal bar divided into four equal segments, with the first segment colored pink and the remaining three segments white.

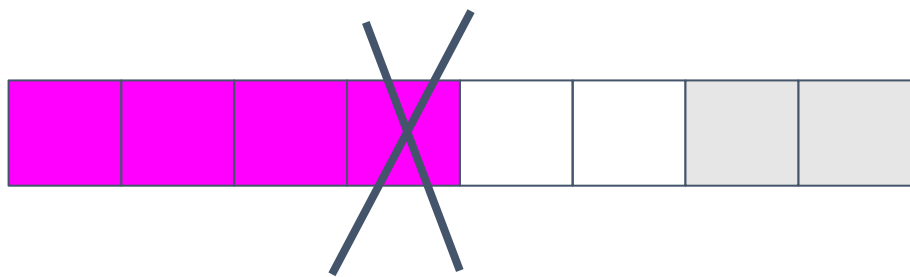
Try this one

$$\frac{4}{8} - \frac{1}{8} =$$



Answer

$$\frac{4}{8} - \frac{1}{8} = \frac{3}{8}$$



=

