Year 4 Week 10 Lesson 5

Can I add and subtract fractions with the same denominator?

Fast Five

- 7579 + 7485 =

- 240 ÷ 80 =
- 365 x 3 =
- 361 ÷ 4 =

- 4574 − 1429 =

Fast Five Answers

- 7579 + 7485 = 15064

- 240 ÷ 80 = 3
- 365 x 3 = 1095
- 361 ÷ 4 = 90 r1

- 4574 − 1429 = 3145

1

½

¼
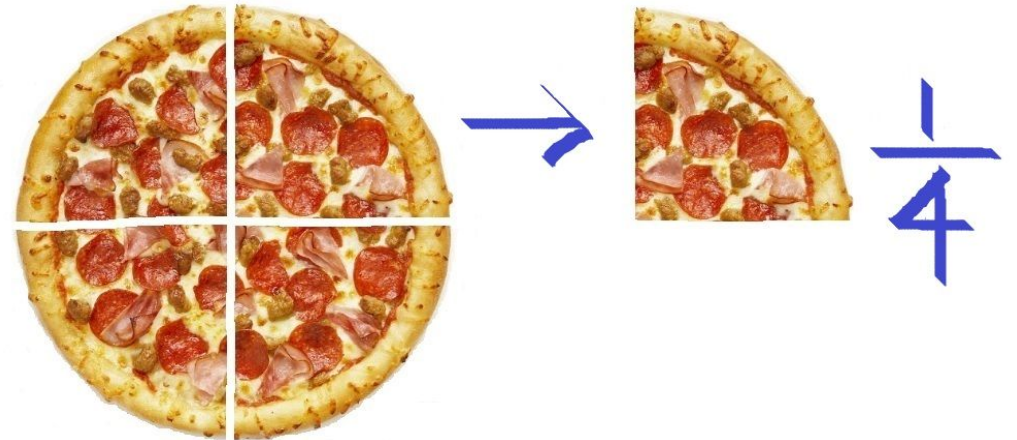
¾
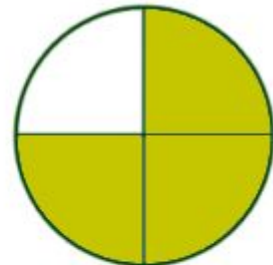
1

$\dfrac{2}{3}$

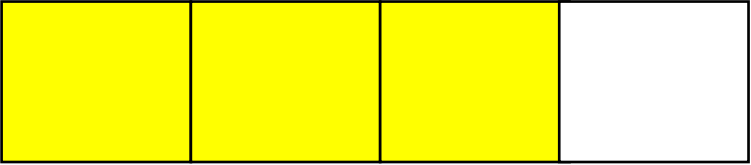$\dfrac{1}{3}$

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.

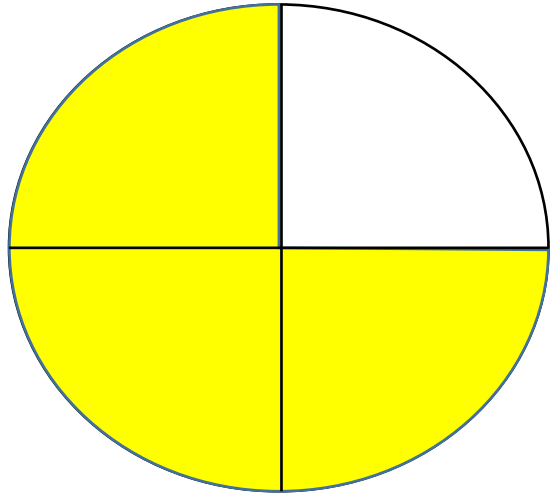These are all different ways of showing ¾.

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

Numerator (number of parts shaded)

$$\frac{3}{4}$$
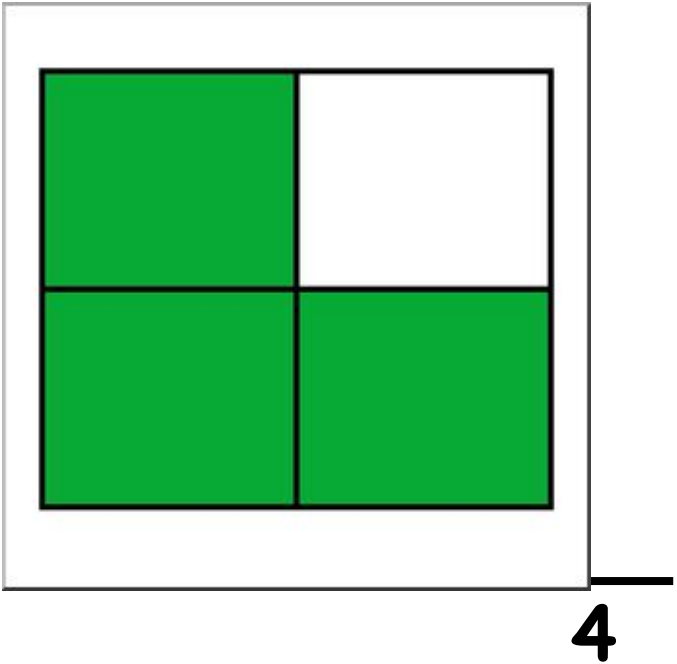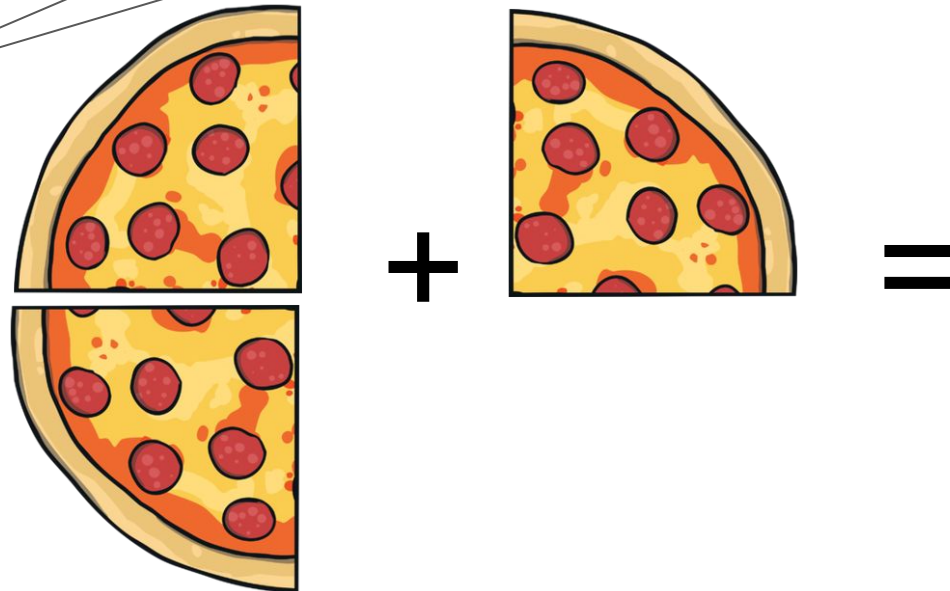
Denominator (4 parts)

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

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

Adding fractions with the same denominator

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

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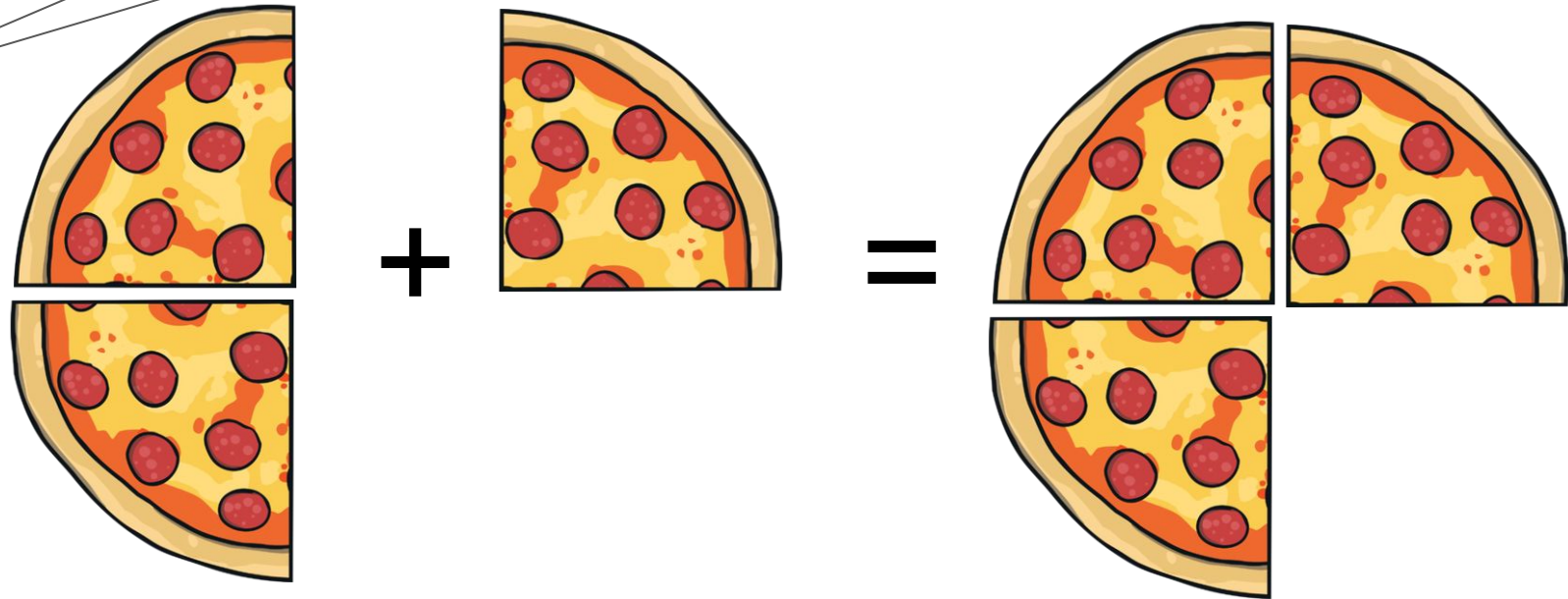
Adding Fractions with the same denominator

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.

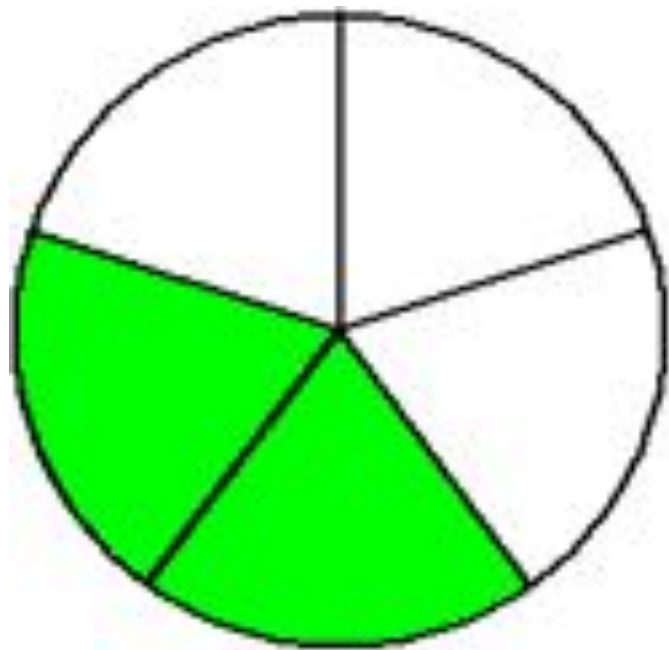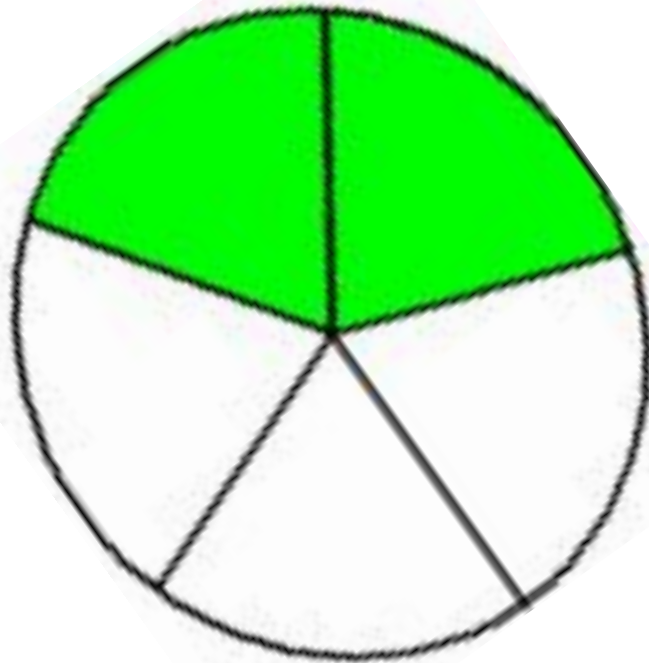$$\frac{1}{5} + \frac{2}{5} = \frac{1 + 2}{5} = \frac{3}{5}$$

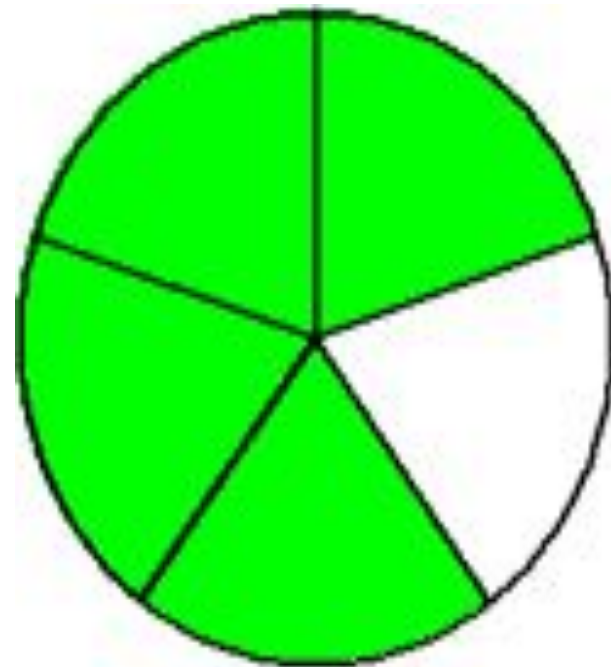Try this one:

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

Answer

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

On this occasion we will be adding mixed numbers. The same rules apply.

Because the denominator is the same we only have to add the numerators. The denominator stays the same. **We also have to add the whole numbers separately.**

$$2\frac{2}{8} + 3\frac{1}{8} = 5\frac{3}{8}$$

$2 + 1 = 3$

$2 + 3 = 5$

Try this one

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

Answer

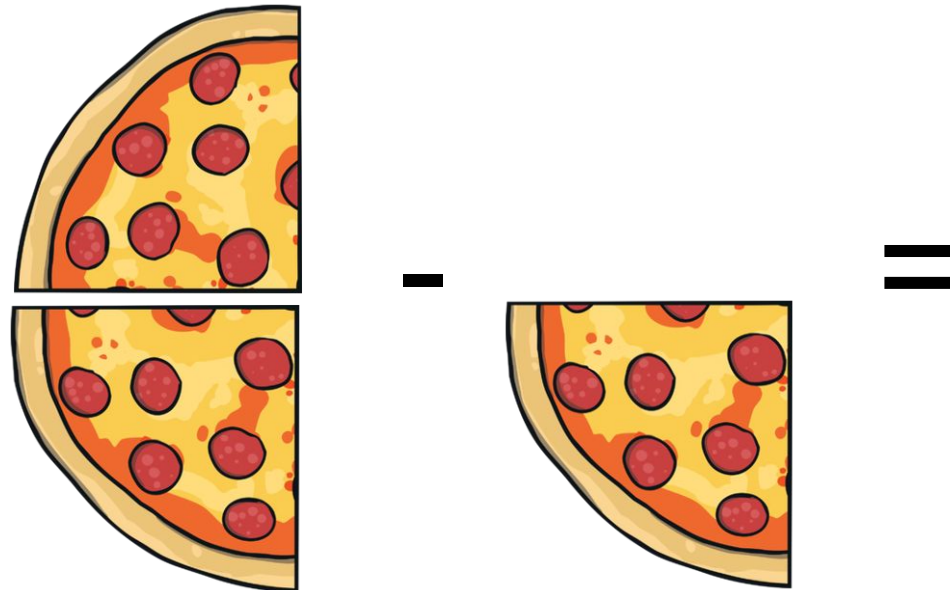$$1\frac{2}{4} + 2\frac{1}{4} = 3\frac{3}{4}$$

$$2 + 1 = 3$$

1. Denominator stays the same.
2. Add the numerators.
3. Add the whole numbers separately

$$2 + 3 = 5$$

Subtracting Fractions with the same denominator

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

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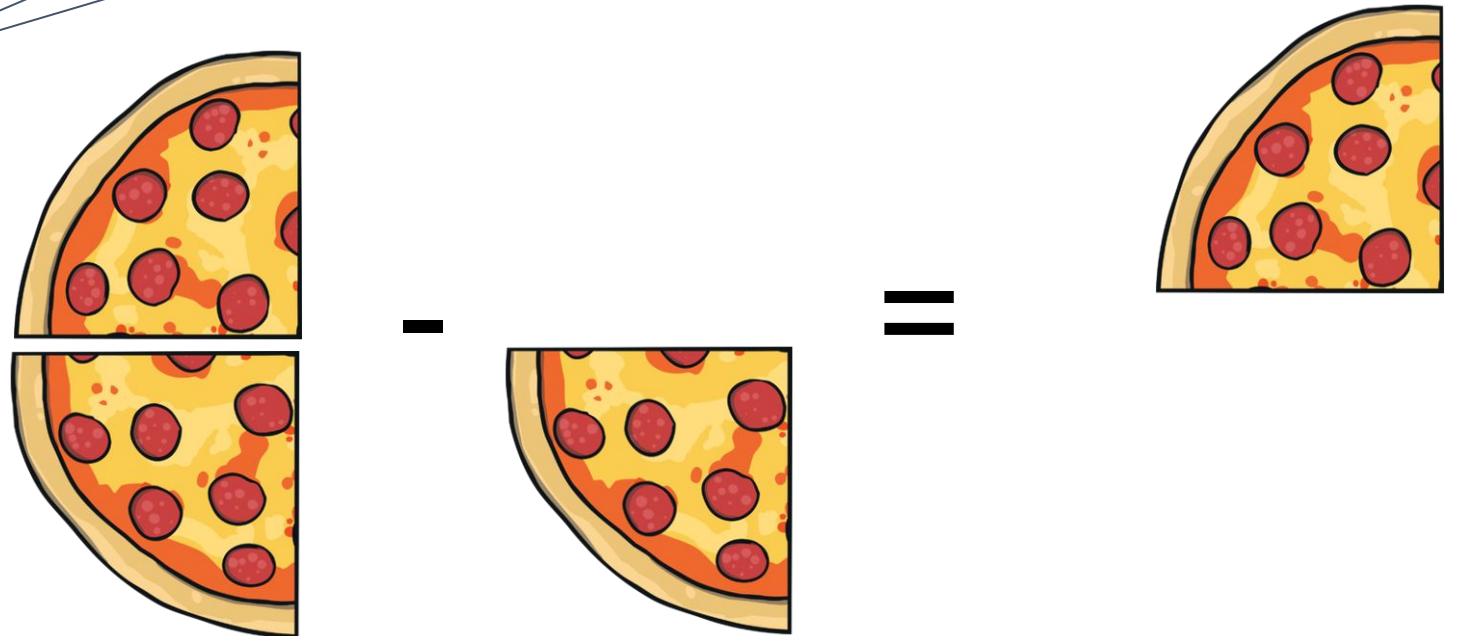
Subtracting Fractions with the same denominator

You then just subtract the numerators as you would normally.
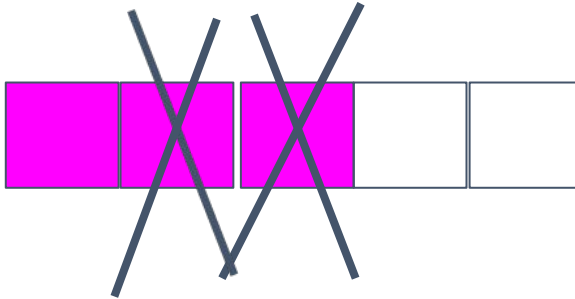
$$\frac{2}{4} - \frac{1}{4} = \frac{1}{4}$$

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

Subtracting fractions with the same denominator

$\dfrac{3}{5}$ - $\dfrac{2}{5}$ =

$\dfrac{3}{5}$ - $\dfrac{2}{5}$ =
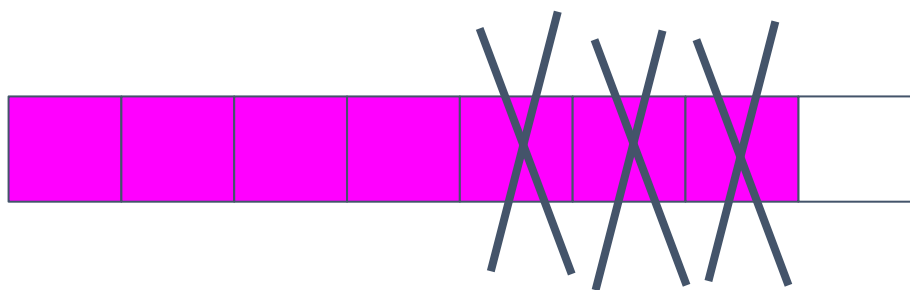
$\dfrac{1}{5}$ =

Try this one

$$\frac{7}{8} - \frac{3}{8} =$$

Answer

$$\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$$

On this occasion we will be subtracting mixed numbers. The same rules apply.

Because the denominator is the same we only have to subtract the numerators. **The denominator stays the same.** **We also have to subtract the whole numbers separately.**

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

3 - 1 = 2

2 - 1 = 1

Try this one

$$4\frac{3}{4} - 2\frac{1}{4}$$

Answer

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

$$3 - 1 = 2$$

1. Denominator stays the same.
2. Subtract the numerators.
3. Subtract the whole numbers separately

$$4 - 2 = 2$$