# Lesson 3 Week 5

- Can I find equivalent fractions?

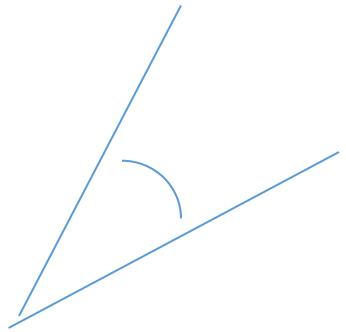
# Fast Five

2345 – 1658 =

26 x 13 =

What is $\frac{17}{4}$ *as a mixed number*?

$$\frac{17}{3} - \frac{8}{3} =$$



What type of angle is this?

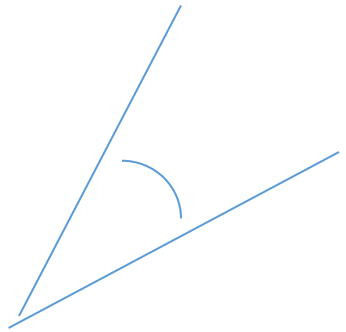
# Fast Five Answers

2345 – 1658 = 687

26 x 13 = 338

What is $\frac{17}{4}$ *as a mixed number*? $= 4\frac{1}{4}$

$$\frac{17}{3} - \frac{8}{3} = \frac{9}{3}$$

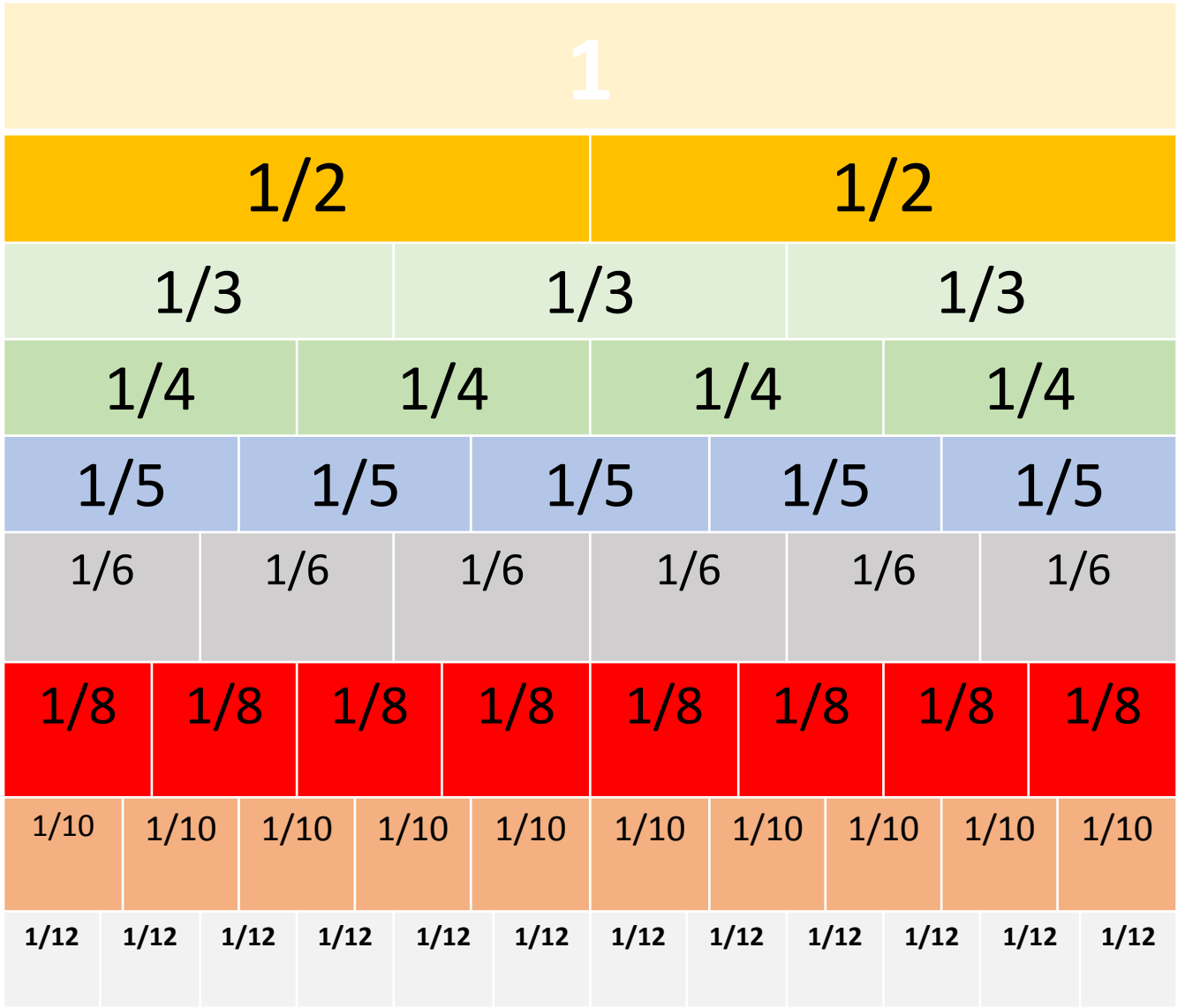


What type of angle is this? Acute

# What is are equivalent fractions?

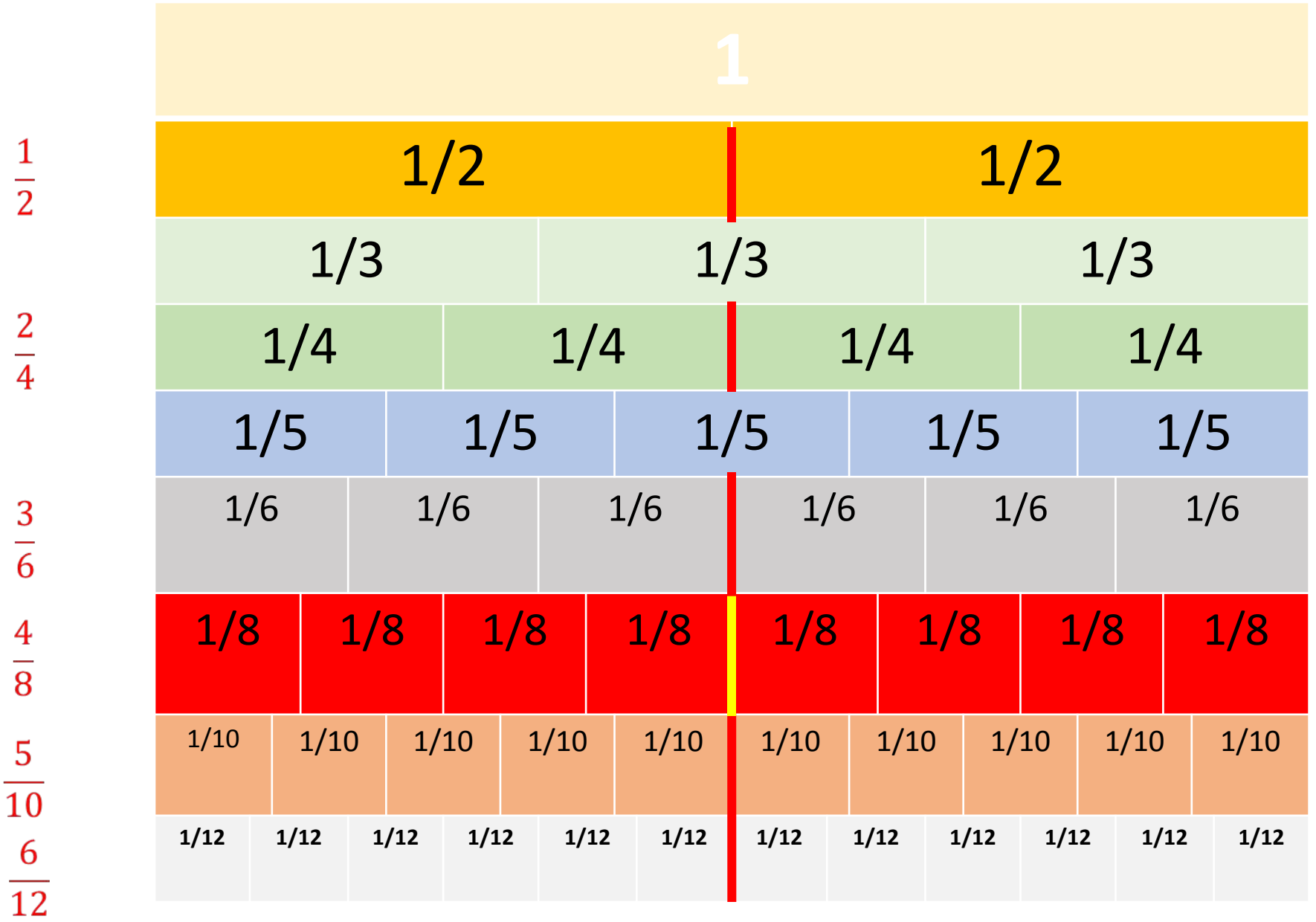
Equivalent means equal to.

What is equivalent to ½?

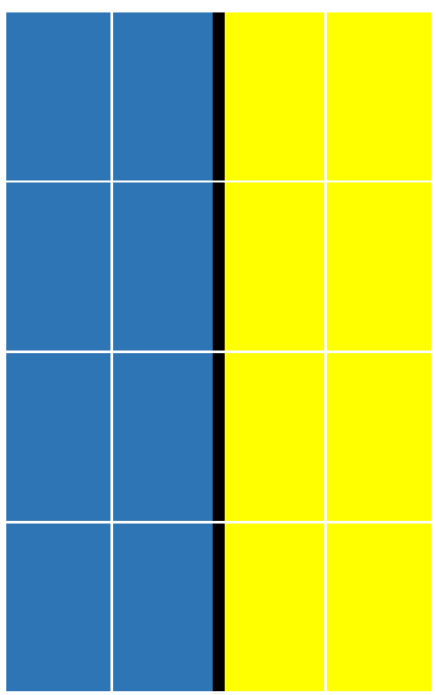


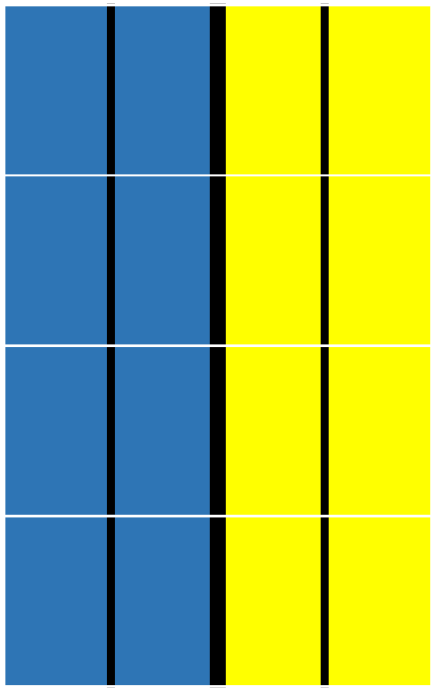
# Answer

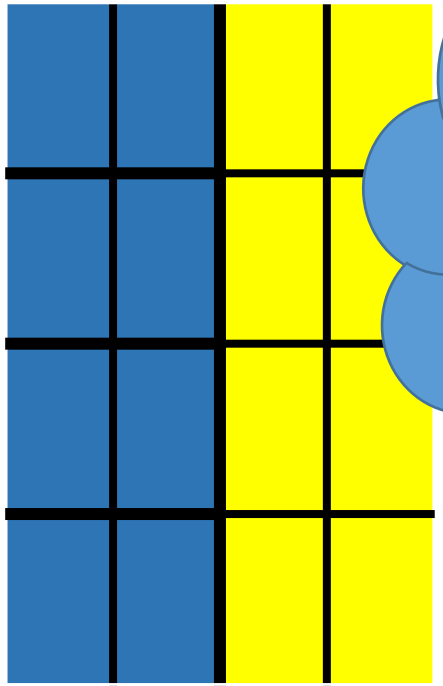
$\frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{5}{10}, \frac{6}{12}$



# Let us look at some equivalent fractions





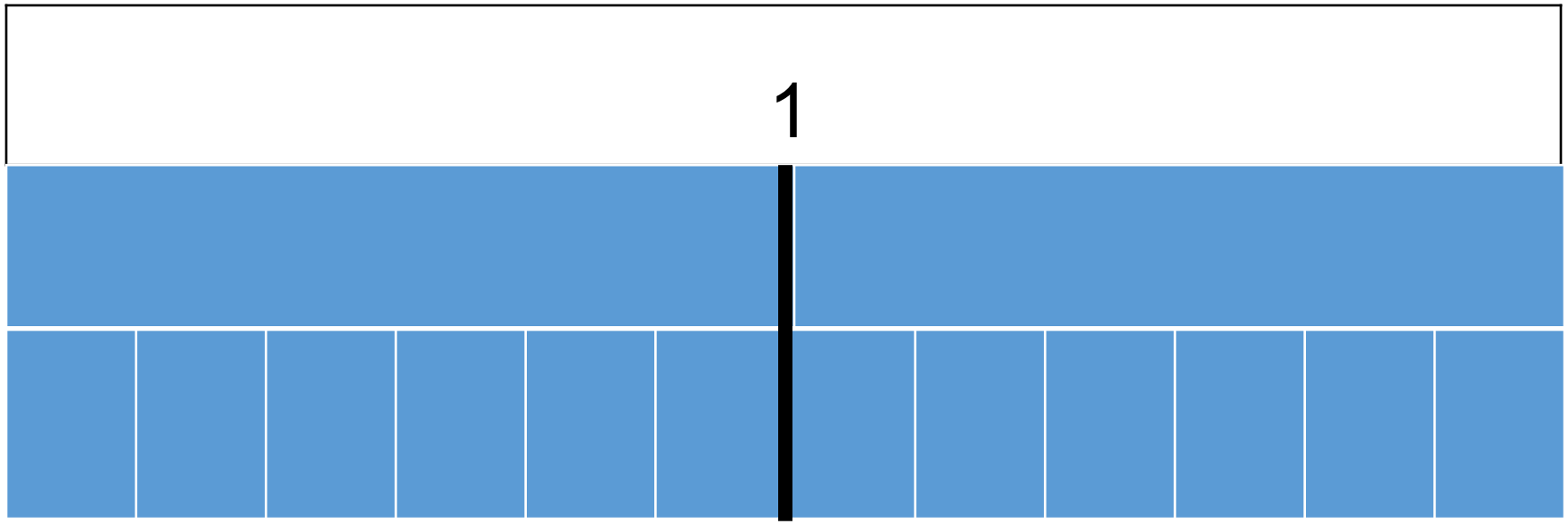


What is the relationship between these fractions?

$$\frac{1}{2} \xrightarrow{\times 2} \frac{2}{4} \xrightarrow{\times 4} \frac{8}{16}$$

Could it be equal to…

$$\frac{6}{12}$$

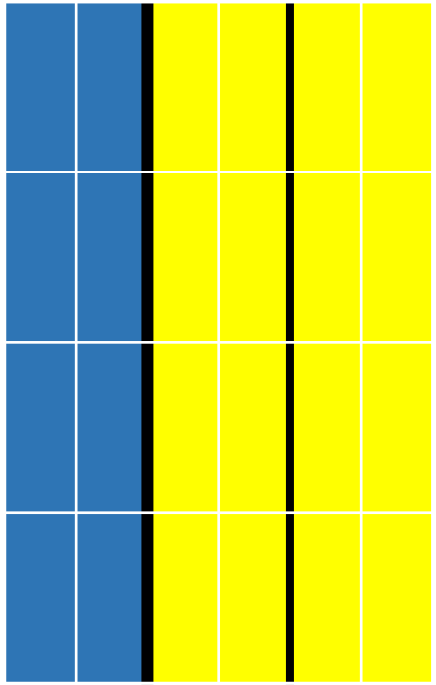


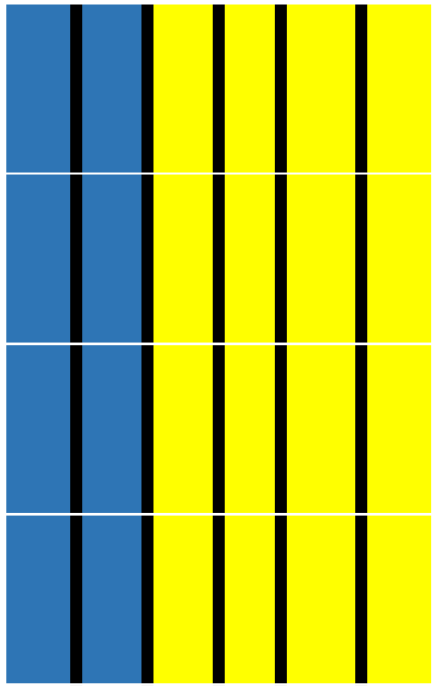

$$\frac{1}{2} \xrightarrow{\times 6} \frac{6}{12}$$

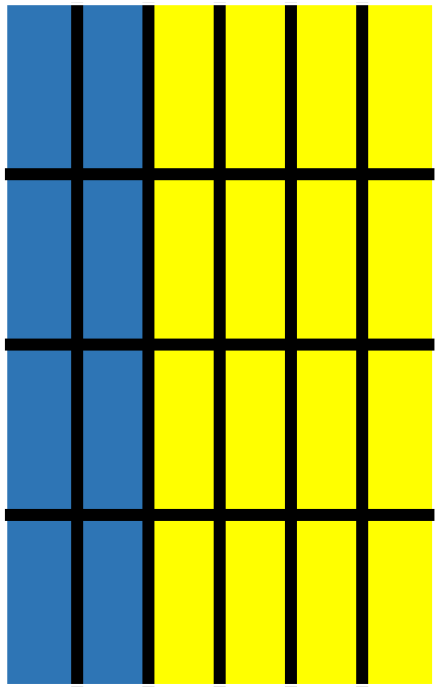
$$\frac{1}{2} \xrightarrow{\times 6} \frac{6}{12}$$

As long as you multiply the numerator and denominator by the same number the fraction will be equivalent.

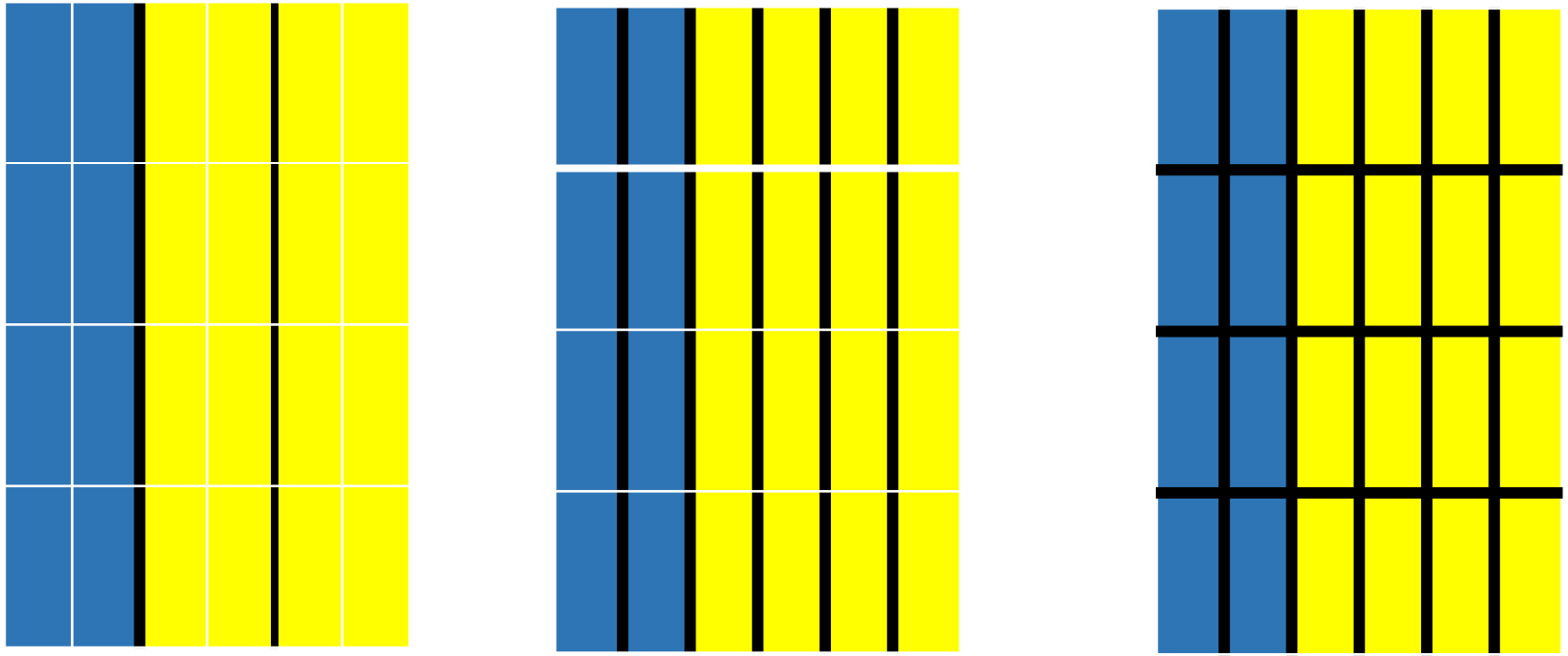
# Now write the equivalent fractions







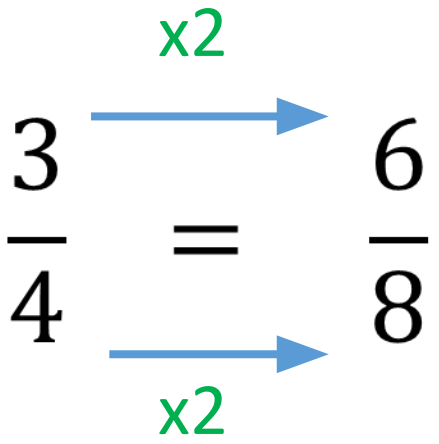
$$\frac{1}{3} = \frac{?}{6} = \frac{?}{24}$$

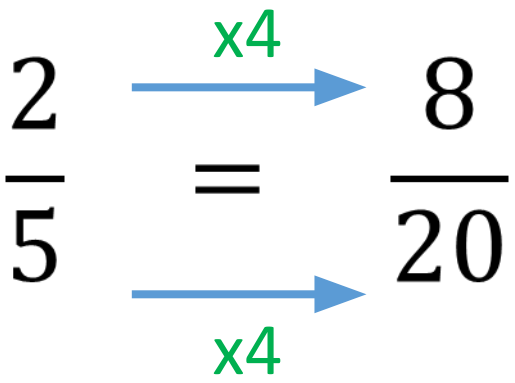


$$\frac{1}{3} \xrightarrow{x2} \frac{2}{6} \xrightarrow{x4} \frac{8}{24}$$

To find equivalent fraction we can use either fraction wall or multiply /divide the numerator and the denominator by the same number.

$$\frac{1}{2} = \frac{2}{4} = \frac{6}{12} = \frac{12}{24} = \frac{120}{240}$$


x2
3/4 = 6/8
x2


x4
2/5 = 8/20
x4

# Have a go

- $\frac{3}{4} = \frac{?}{12}$
- $\frac{1}{3} = \frac{4}{?}$

# Have a go

- $\frac{3}{4} \xrightarrow{x3} \frac{9}{12}$ Multiply both numerator and denominator by 3.

- $\frac{1}{3} \xrightarrow{x4} \frac{4}{12}$ Multiply both numerator and denominator by 4.

# Using division to find equivalency

$$\frac{15}{30} = \frac{?}{10}$$

$$\frac{15}{30} \xrightarrow{\div 3} \frac{?}{10}$$

$$\frac{15}{30} \xrightarrow{\div 3} \frac{?}{10}$$

$$\frac{15}{30} = \frac{5}{10}$$

30 ÷ 3 = 10

We divided the denominator by 3 so we divide the numerator by 3 as well.

So 15 ÷ 3 = 5

- $\frac{20}{30} = \frac{?}{3}$
- $\frac{15}{30} = \frac{?}{6}$

- $\frac{20}{30} \xrightarrow{\div 10} \frac{2}{3}$ (÷10)

- $\frac{15}{30} \xrightarrow{\div 5} \frac{3}{6}$ (÷5)