

# Lesson 3 Week 5

- Can I find equivalent fractions?

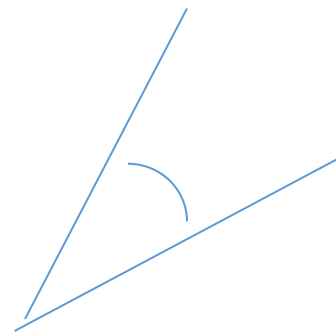
# Fast Five

$$2345 - 1658 =$$

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

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

$$26 \times 13 =$$



What type of angle is this?

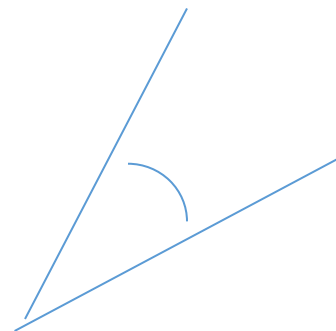
# Fast Five Answers

$$2345 - 1658 = 687$$

$$26 \times 13 = 338$$

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

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

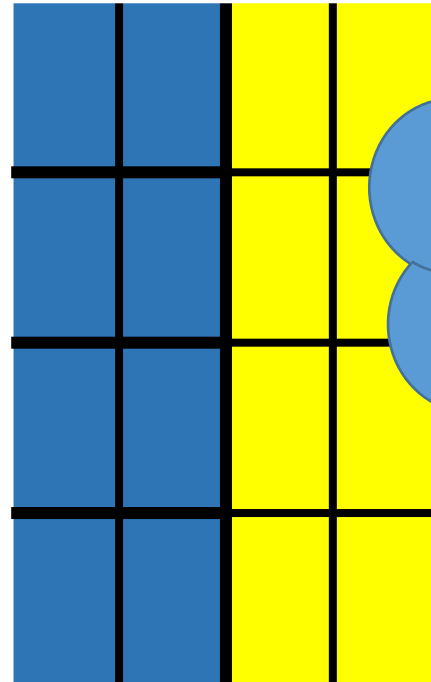
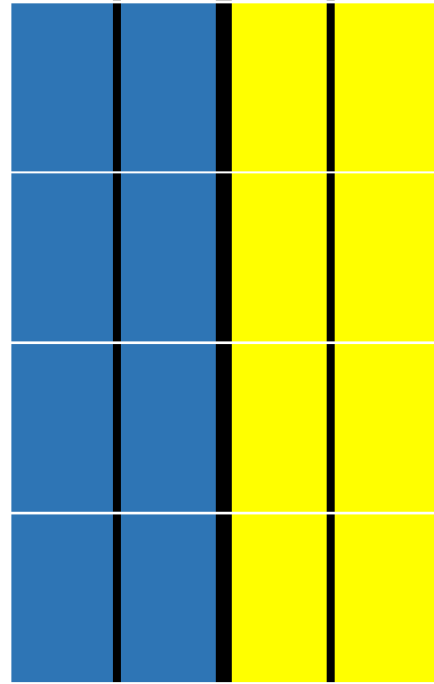
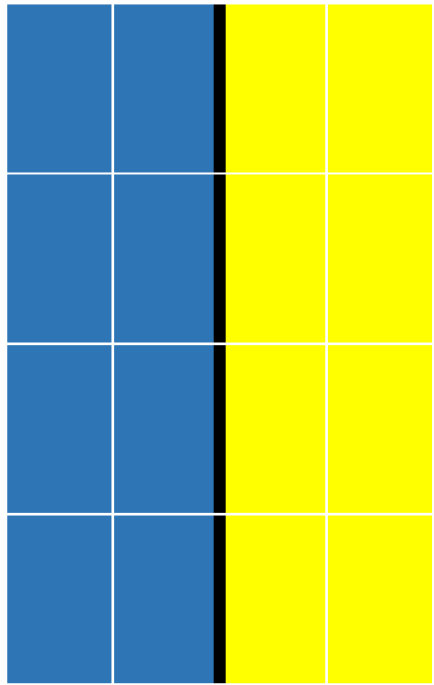


What type of angle is this? **Acute**





Let us look at some equivalent fractions

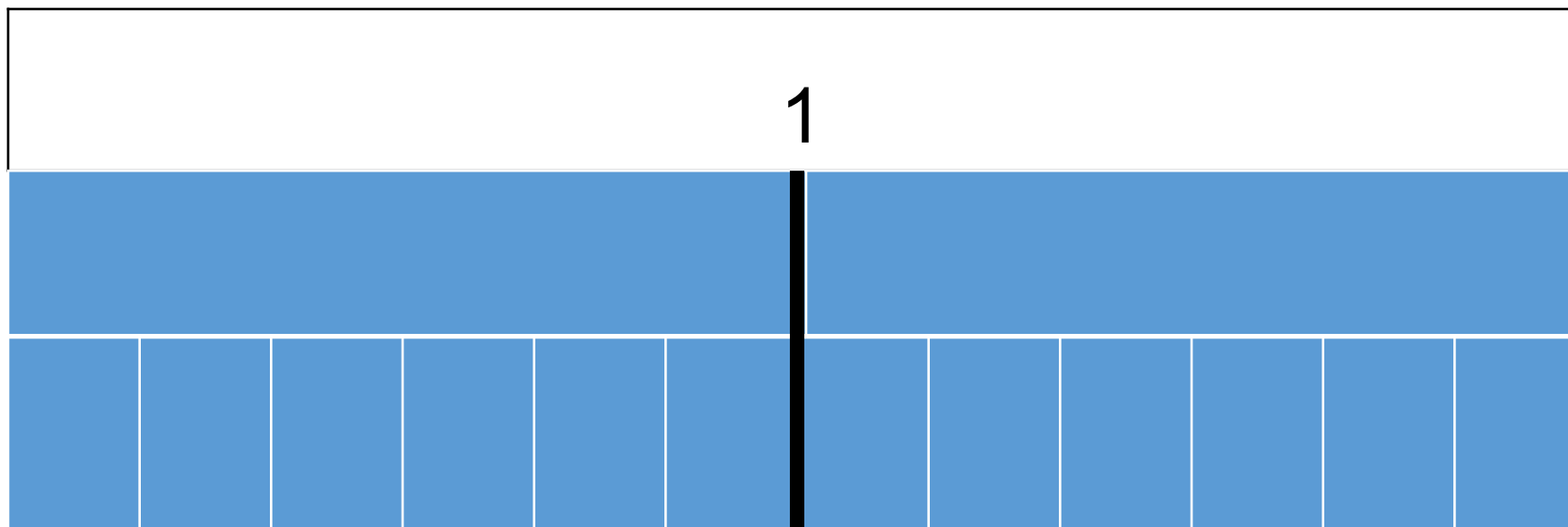


What is the relationship between these fractions?

$$\begin{array}{ccc} 1 & \xrightarrow{\text{X } 2} & 2 \\ \text{---} & = & \text{---} \\ 2 & \xrightarrow{\text{X } 2} & 4 \end{array} \quad \begin{array}{ccc} 2 & \xrightarrow{\text{X } 4} & 8 \\ \text{---} & = & \text{---} \\ 4 & \xrightarrow{\text{X } 4} & 16 \end{array}$$

Could it be equal to...

$$\begin{array}{c} 6 \\ \text{---} \\ 12 \end{array}$$

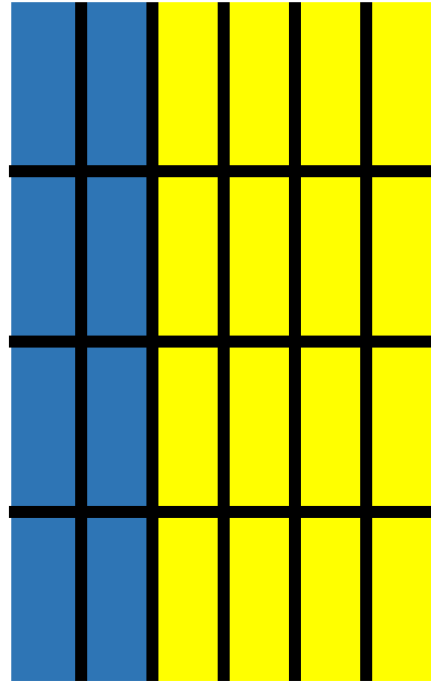
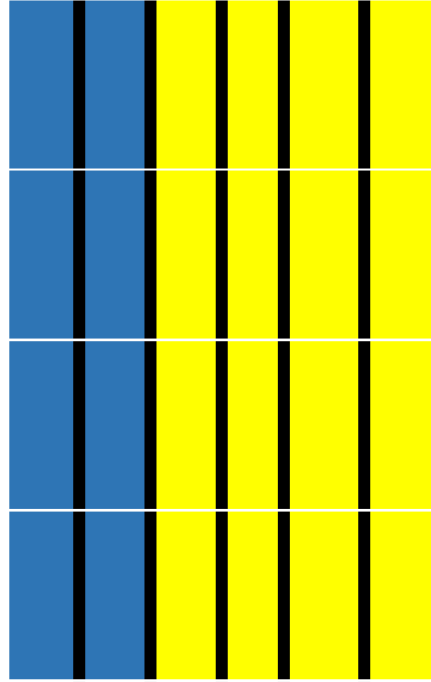
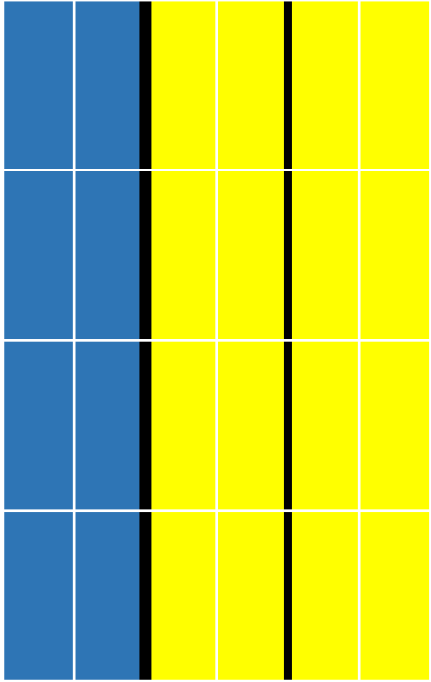


$$\frac{1}{2} \xrightarrow{\text{x6}} \frac{6}{12} \xrightarrow{\text{x6}}$$

=

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

Now write the equivalent fractions



1

?

?

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=

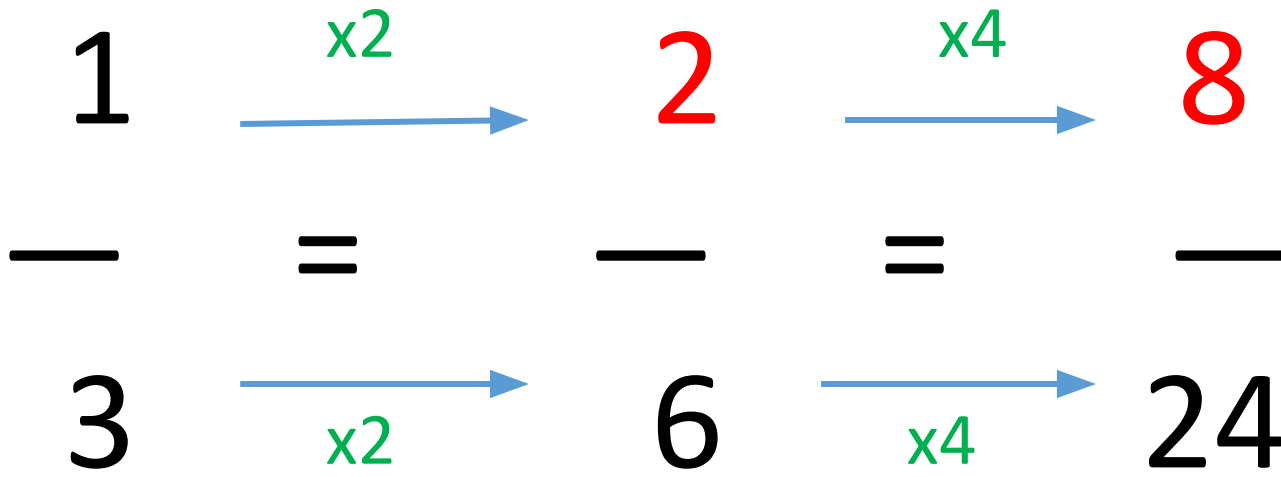
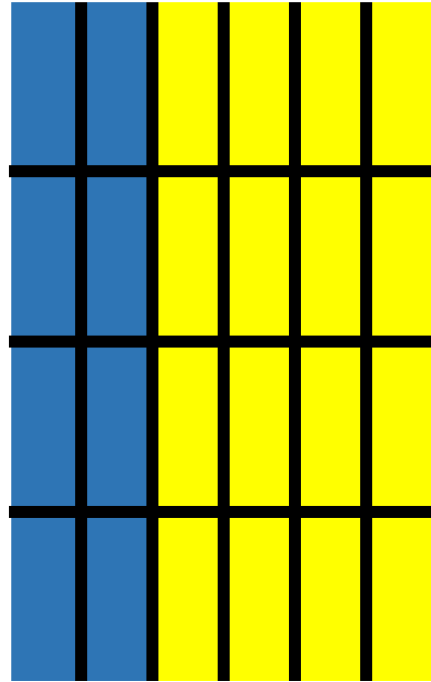
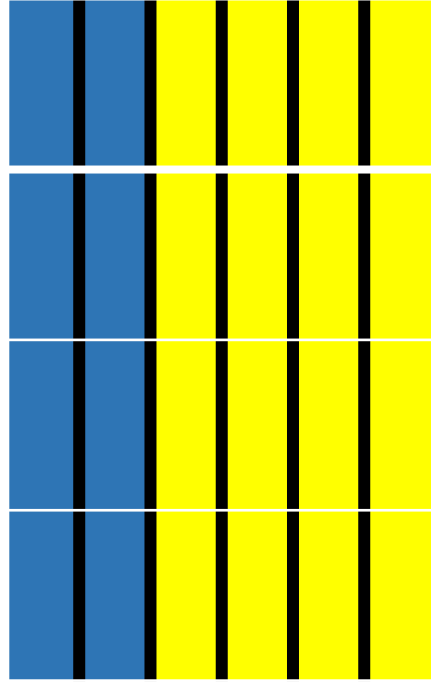
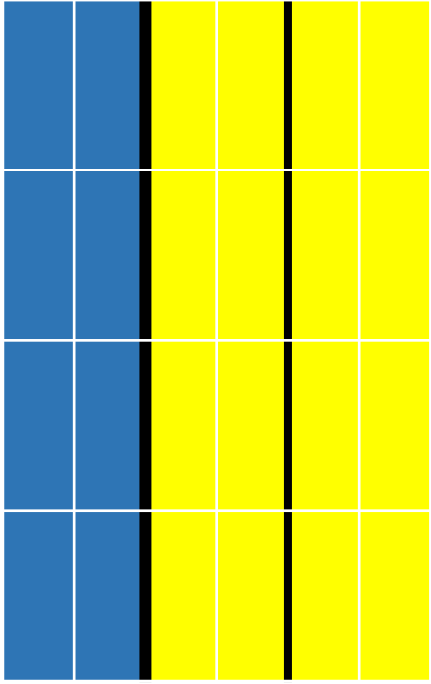
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3

6

24





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

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

$$\begin{array}{ccc} 3 & \xrightarrow{x2} & 6 \\ \frac{3}{4} & = & \frac{6}{8} \\ 4 & \xrightarrow{x2} & 8 \end{array}$$

$$\begin{array}{ccc} 2 & \xrightarrow{x4} & 8 \\ \frac{2}{5} & = & \frac{8}{20} \\ 5 & \xrightarrow{x4} & 20 \end{array}$$

# Have a go

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

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

# Have a go

•  $\frac{3}{4} = \frac{9}{12}$  Multiply both numerator and denominator by 3.

•  $\frac{1}{3} = \frac{4}{12}$  Multiply both numerator and denominator by 4.

# Using division to find equivalency

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

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

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

$$30 \div 3 = 10$$

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

$$\text{So } 15 \div 3 = 5$$

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

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

$$\bullet \frac{20}{30} = \frac{2}{3}$$

Diagram illustrating the simplification of the fraction  $\frac{20}{30}$  to  $\frac{2}{3}$ . The fraction is shown with a horizontal line between the numerator and denominator. A blue arrow points from 20 to 2, labeled  $\div 10$  in green. Another blue arrow points from 30 to 3, labeled  $\div 10$  in green.

$$\bullet \frac{15}{30} = \frac{3}{6}$$

Diagram illustrating the simplification of the fraction  $\frac{15}{30}$  to  $\frac{3}{6}$ . The fraction is shown with a horizontal line between the numerator and denominator. A blue arrow points from 15 to 3, labeled  $\div 5$  in green. Another blue arrow points from 30 to 6, labeled  $\div 5$  in green.