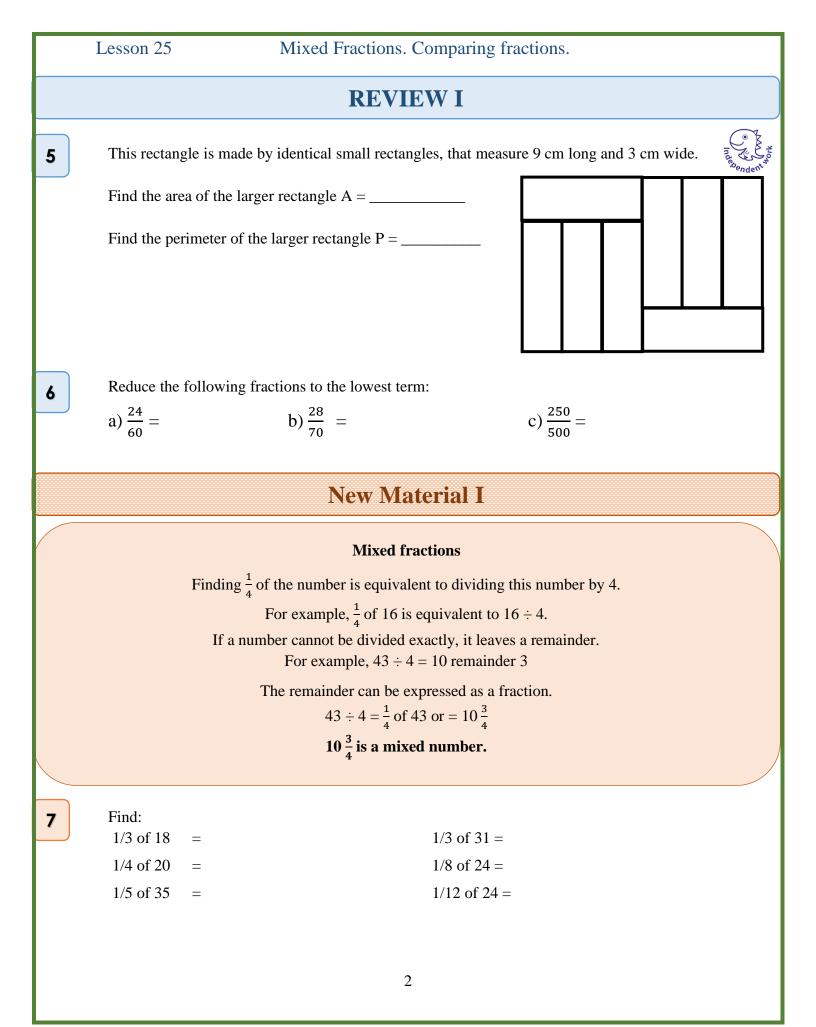
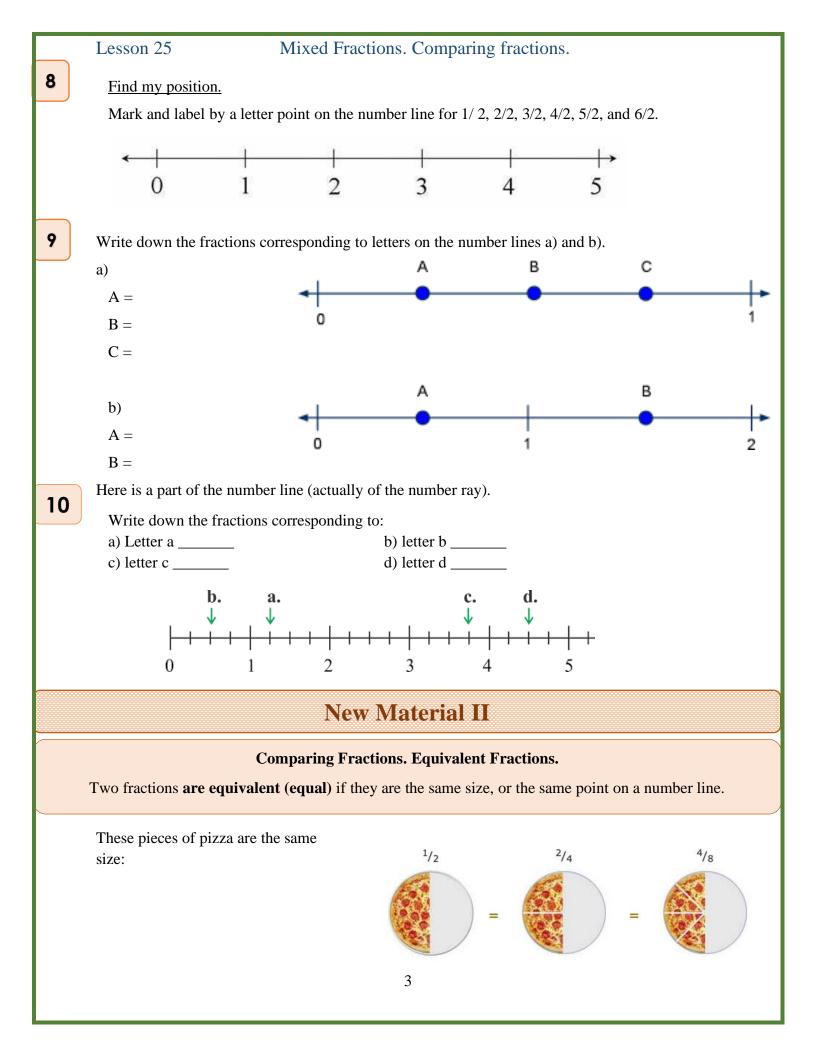
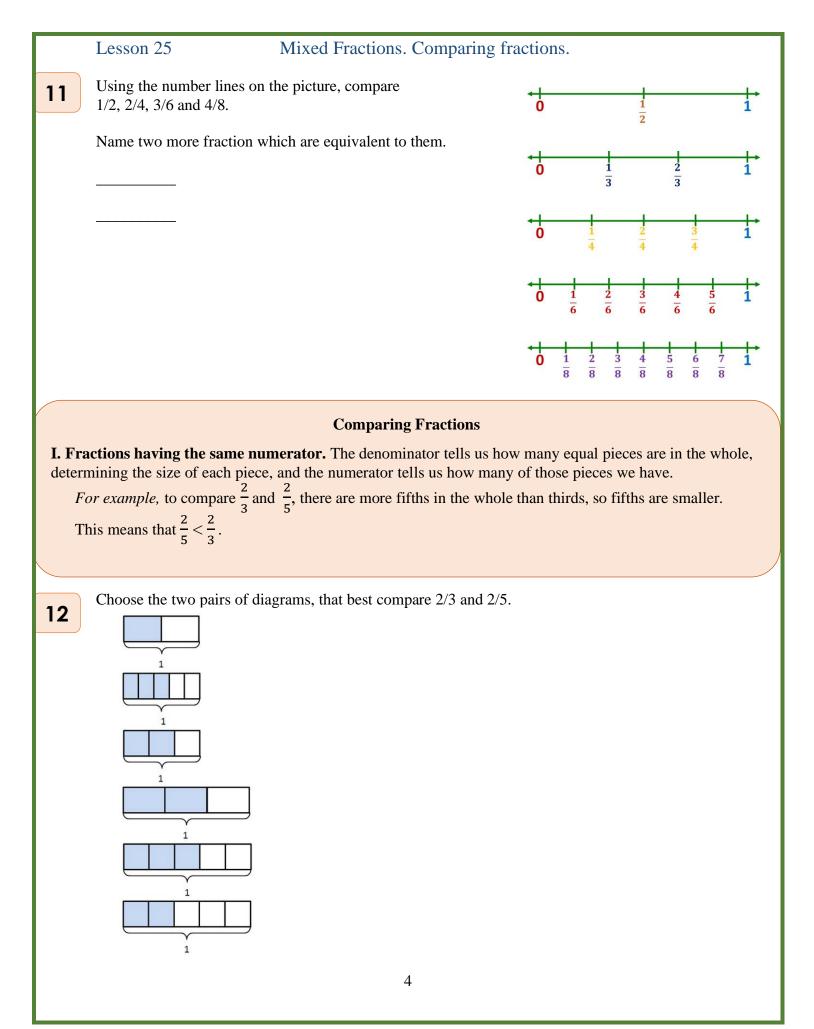
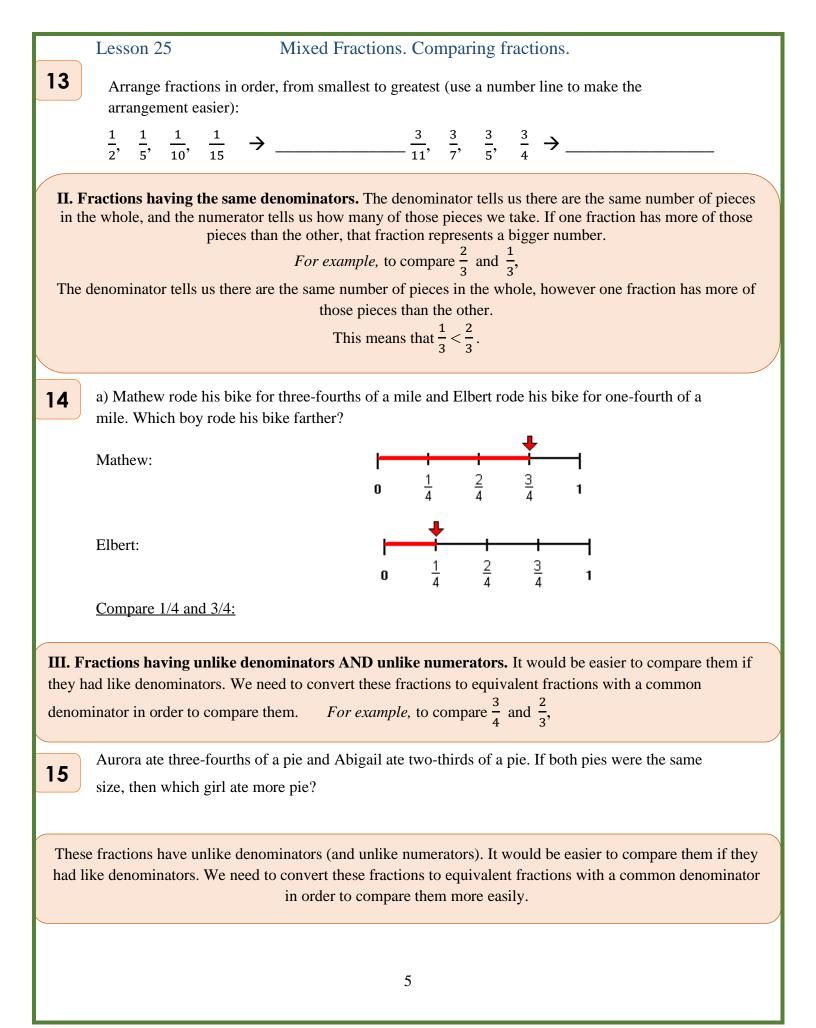
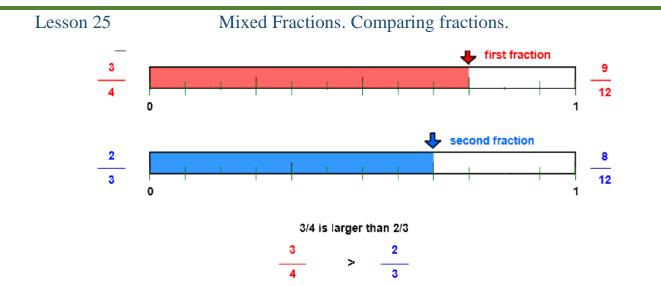
Warm Up						
	Multiplication and Division Quiz. Do as many problems as you can in <b>5 minutes.</b>					
	Compare, using <, >, and =					
	a) 12,000 ÷ 60 … 1,200 ÷ 6	1	b) 130 × 50 1,300 × 5	Bendent		
	c) 30,000 ÷ 5 3,000 ÷ 50		d) 210 × 3002,100 × 30			
	e) 1,500 ÷ 50 … 15,000 ÷ 50	f) $550 \times 40 \dots 5,500 \times 40$				
	$505 \times 2 =$	300 × 5 =	302 × 5 =			
	$303 \times 2 =$ 40 ×15 =	$500 \times 3 =$ $5 \times 40 =$	$502 \times 5 =$ $55 \times 5 =$			
	$40 \times 13 =$ $202 \div 2 =$	$3 \times 40 =$ $480 \div 6 =$	$55 \times 5 =$ 500 ÷ 25 =			
	$202 \div 2 =$ $440 \div 40 =$	$430 \div 0 =$ $450 \div 50 =$	$300 \div 23 =$ $480 \div 80 =$			
	440 ÷ 40 –					
		Homew	vork Review			
	Compare, using $\langle , \rangle$ or =. Think carefully about an order of operations:					
3	$8 \times 64 - 40 \dots 8 \times (64 - 40)$					
	$100 \div 5 + 5 \dots 100 \div (5 + 5)$					
	$20 + 50 \times 8 \dots (20 + 50) \times 8$					
	$12 \times 43 + 51 \times 5 \dots 5 \times 51 +$	43 × 12				
	Write the answer for each question:					
	a) There are a total of 40 kg of apples packed in 8 identical bags (equal amount in each)					
	<ul> <li>How many kgs are in each bag?</li> <li>How many kgs of apples are in x such bags?</li> </ul>					
				-		
	b) There are $a$ kgs of apple	-				
	How many kgs are in each bag?					
	<ul> <li>How many bags would you need to pack <i>q</i> kgs of apples?</li> <li>c) A train traveled 200 km at an even speed for 5 hours.</li> </ul>					
	<ul> <li>How many km the train covered in one hour?</li></ul>					











Here, we will introduce the idea of the least common denominator or LCD. LCD is an idea that will be used in comparing, adding, and subtracting fractions. The LCD is the smallest number that both 4 and 3 will divide into evenly. The LCD for the fractions  $\frac{3}{4}$  and  $\frac{2}{3}$  is 12 because both denominators 4 and 3 divide evenly into 12.

Then, write each fraction with the common denominator 12 to make them like. The illustration shows that  $\frac{3}{4}$  is equal to  $\frac{9}{12}$  and  $\frac{2}{3}$  is equal to  $\frac{8}{12}$ . Once each fraction is renamed with a common denominator, you can compare the numerators - the larger the numerator the larger the fraction.

Aurora.

Aurora:	$\frac{3}{2} = \frac{n}{2}$	$\frac{3}{2} = \frac{3 \times 3}{2} = \frac{9}{2}$
	4 12	4 4×3 12
Abigail:	$\frac{2}{n} = \frac{n}{n}$	$\frac{2}{2} = \frac{2 \times 4}{2} = \frac{8}{2}$
	3 12	3 3×4 12

Solution:

## Did you know ...

Did you know that fractions as we use them today didn't exist in Europe until the 17th century?

In fact, at first, fractions weren't even thought of as numbers in their own right at all, just a way of comparing whole numbers with each other. Who first used fractions? Were they always written in the same way? How did fractions reach us here? You will learn more about fractions in the next few lessons.

The word fraction actually comes from the Latin "fractio" which means to break.

