## FRACTIONS Arithmetic Test

## Vocabulary

- Whole
- Integer
- Fraction
- Part
- Numerator
- Denominator
- Improper fractionMixed number

- MultipleLowest common multiple
- Equivalent
- Add
- Subtract
- Multiply
- Divide
- Simplify























Diving a fraction by a number that's whole Times the bottom number then you're on a roll

$$\frac{3}{5} \div 5 \frac{3}{15} \qquad \frac{3}{15} \div 4 \frac{3}{60} \qquad \frac{5}{12} \div 6 \frac{5}{72}$$





YZ Fraction ÷ Fraction	Dividing	Fractions
	<u>1</u> 4	<u>1</u> 4
	<u>1</u> 4	

 $\frac{3}{4} \div \frac{1}{4} = 3$ 

If the **denominators** ÷ means... are the **same**, we are dividing pieces that How many... were the same size **go into**...

Y7\*

YZ Fraction ÷ Fraction	Dividin	g Fractio	ns	<u>1</u> 2 24	• •	<u>1</u> 4	=	2				Y
				If the <b>denominators</b> are the <b>different</b> , we can make the denominators the same.					÷ means How many go into			
	<u>1</u> 4	<u>1</u> 4										
				<u>5</u> 6	÷	<u>1</u> 3	<u>2</u> 6	= 2	<u>1</u> 2	<u>5</u> 2	<u>15</u> 6	
				<u>5</u> 6	X	<u>3</u> 1	=	= 1	<u>5</u> 6		2 =	2

Y7\*

2



Fractic Song	Multiplying fractions? No big problem Top times top And bottom times bottom If you're timesing by a number that's whole	$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$
	Times it by the top to reach your goal <b>Dividing fractions is as easy as pie</b> Flip the second fraction and multiply <b>Diving a fraction by a number that's whole</b> Times the bottom number then you're on a roll	$4  -  -  4$ $\frac{5}{6} \div \frac{1}{3}  \frac{5}{6} \times \frac{3}{1} = \frac{15}{6}$ $\frac{3}{4} \div  3 = \frac{3}{12}$
	If adding or subtracting is your game First the bottom numbers must be the same Change it by multiply or divide Do the same to the top you've been advised	$\frac{1}{5} + \frac{2}{6}$ $\frac{6}{30} + \frac{10}{30} = \frac{16}{30}$
C G F Em D Em (	And don't forget to simplify Before it's time to say Goodbye!	$\frac{16}{30} = \frac{8}{15}$





















## Practice

## $\frac{2}{3}\frac{18}{27} + \frac{21}{27}\frac{7}{9} = \frac{39}{27}$ $\frac{1}{7} \frac{5}{35} + \frac{21}{35} \frac{3}{5} \frac{26}{35}$ $\frac{5}{3} \frac{40}{24} - \frac{3}{24} \frac{1}{8} \frac{37}{24}$ $\frac{6}{7}\frac{48}{56} - \frac{21}{56}\frac{3}{8}\frac{27}{56}$