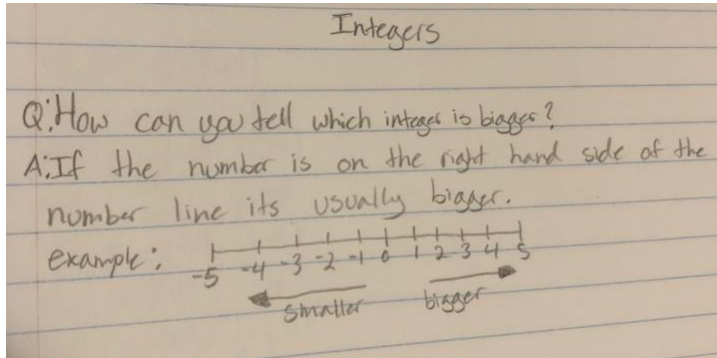


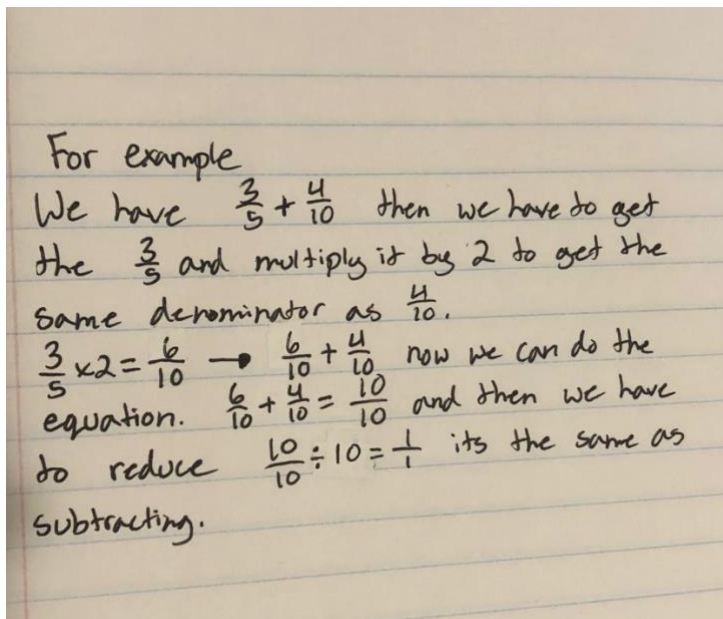
What I have learnt about in grade 9 fractions

Throughout the unit of learning fractions. In the begging I have learnt how to use the number line to identify how to identify the integers. I have learnt that, if the fraction is on the left hand side it is a negative number and if it is on the right side it is a positive number. (picture)



Adding/Subtracting fractions

For adding and subtracting fractions I have learnt that when we add or subtract the fraction, the fractions have to be the same denominator, or it wouldn't work. So for example (picture)

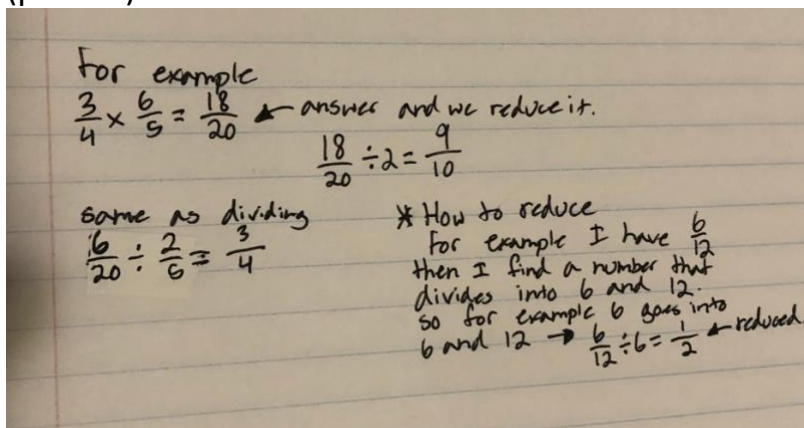


### Adding/subtracting integers

For adding integers if we have an equation that says  $(-6) + 8$  then technically subtract, we do how many of the negatives can get rid of the positives. So since we have  $-6$ , and we have positive  $8$ , the negative can get rid of  $6$  of the positive, than  $2$  of the positive would be left, and that's your answer,  $+2$ . For subtracting integers if we have a equation for example:  $(-9)-(-7)$ , if its two negatives that are subtracting we just subtract, same as two positive numbers subtracting so the answer for  $(-9)-(-7)$  would be  $-16$ , and then we just add a negative sign if it was negative numbers subtracting and positive sign if positive numbers are subtracting. For a question like  $(-9) - (+6)$  than that is the same as adding, so the answer would be  $-15$ , and we would put a negative sign because the negative comes first in the equation.

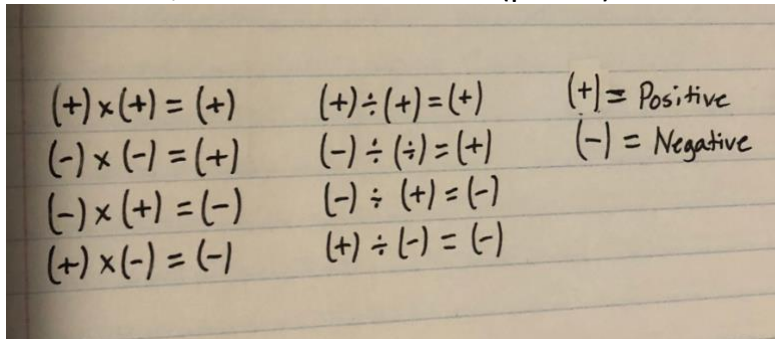
### Multiplying/ dividing fractions and reducing fractions.

For multiplying and dividing fractions, we just divide and multiply. So we don't have to change the denominator, we just divide/multiply the top number by the top number and the bottom number by the bottom number. For example (picture)



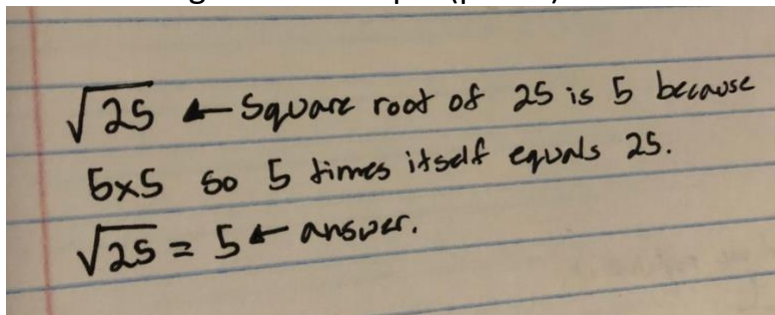
## Multiplying/ dividing integers

For multiplying and dividing integers, you just multiply and divide, but there are some rules, and those rules are: (photo)



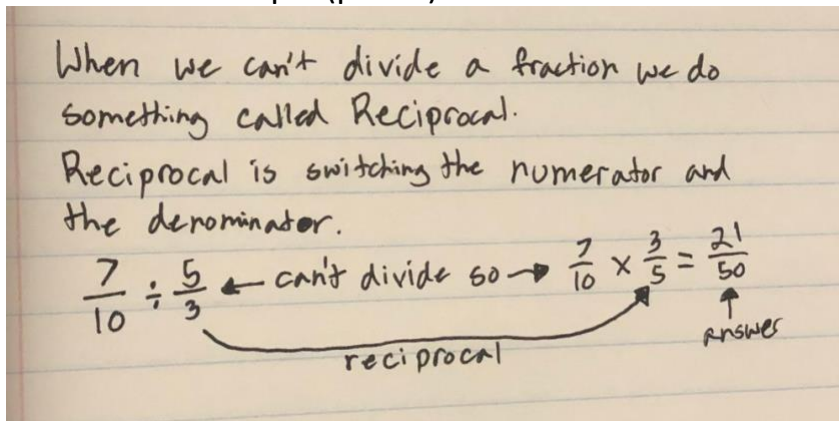
## Square roots

Square roots is a number multiplied by the same number equals the square root of something so for example (photo)



## Reciprocal

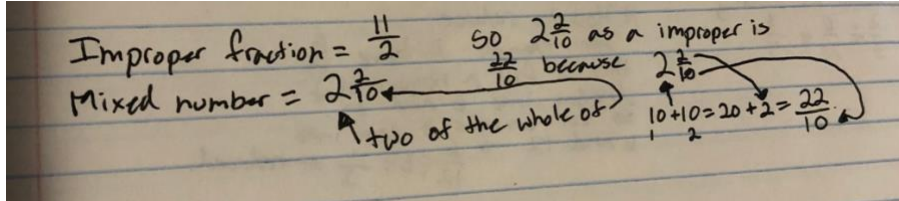
Reciprocal is, in a fraction switching the denominator number and the numerator number for example (photo)





## Improper and Mixed number

Improper fraction is when the numerator number is higher than the denominator, usually the denominator is higher, but in improper the numerator is higher, so it is called the improper fraction. For the Mixed number there is a whole number and beside it is a fraction, so the whole number means there is a whole of the denominator. Example (photo)



## One other thing I learnt about rational numbers

I have learnt that to estimate the square root of a imperfect square is to find the square root in between the imperfect square, for example (photo)

