Y8 Maths **Block 1-Number Sense**

Addition and Subtraction Integer Rules

The rule gives the sign of the operation when 2 signs are next to each other



Same Signs -

POSTTTVE















Multiplying and Dividing Integers Rules











Different Signs -7 x - 4 = -28

-6 x - 4 = 24

 $-35 \div 5 = -7$

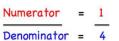
 $-40 \div -8 = 5$

Positive numbers



Positive Integers are whole numbers greater than zero

Negative Integers are whole numbers less than zero



Ordering Fractions

Find a common denominator

denominator of the other):

Convert all fractions

(Try multiplying each fraction by the 14



Example 1:

Example 2:

into decimals

Rounding to nearest 10 etc. 3) Decide if it stays or rounds up.

1) Identify the tens digit.

326 The tens digit is 2, or 20.

2) Work out the next ten up. 326 is between 320 and 330

Find the number.

Look right next door.

5 or more?

Raise the score!

4 or less

Let it rest!

 $\frac{x7}{x7} = \frac{4}{7} \times 5$

35

<u>20</u>

35

 $2 \div 5 = 0.4$

 $5 \div 7 = 0.57$

Use the units digit to decide. "5 or more rounds up", so 6

will round up to the next 10.

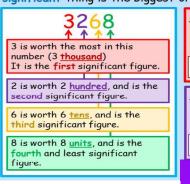
 $326 \rightarrow 330$

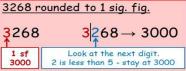
Rounding to decimal places:

 $3.248 \rightarrow 3.2$ 3.248 1st dp Look at the next digit. 3.2 4 stays down - stay at 3.2.

Rounding Significant figures **Numbers**

If something is significant, it is big or important. The most significant thing is the biggest or most important thing. kounding Rules!

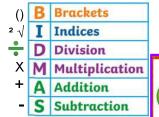






All other digits become a zero as they are not significant!









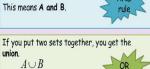




Venn Diagrams

Negative numbers

The intersection is where two sets overlap. $A \cap B$ AND



The complement of A is the region that is not This means not A.

This means A or B.





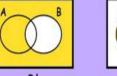




Divide numerator by denominator



Complement of A

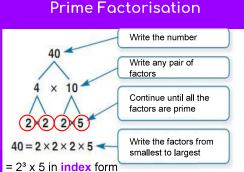


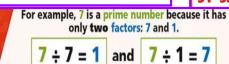


A union B

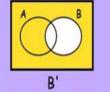


A prime number is a whole number that has only two factors: itself and 1.









Complement of B

