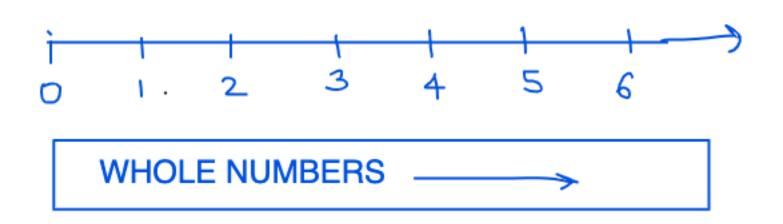


GCSE MATHS



WHOLE NUMBERS

What are Whole Numbers
Place Value
Addition
Subtraction
Multiplication
Division
BIDMAS or BODMAS
Word Problems



Whole Numbers are counting numbers starting from Zero

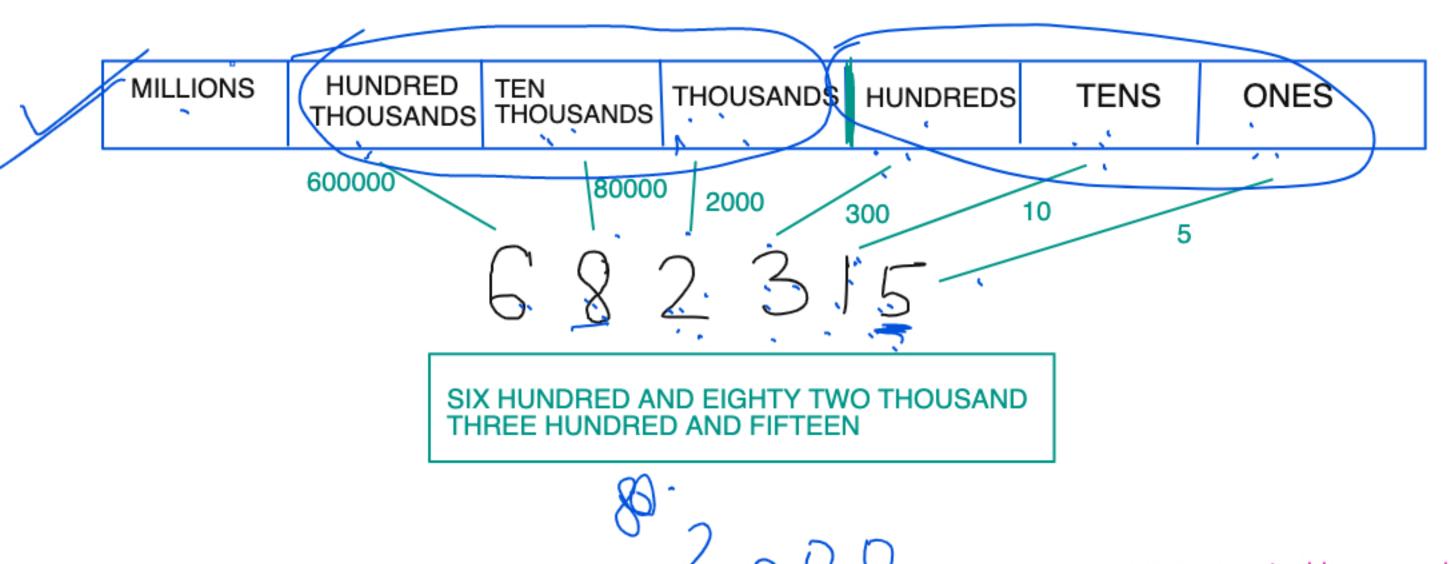
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#### PLACE VALUE



Place value is the position of a digit in a number



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Q1 a) Write the place value of 1, 5, 8 and 2 in the number below:-

9358217

✓ Place Value of 1:

Place Value of 5:

Place Value of 8:

Place Value of 2:

b) Write the above numbers in words

Write the following numbers as digits

a) Sixty two thousand seven hundred and fifty two

b) Two hundred and Eleven Thousand and Sevent Two





Q1 a) Write the place value of 1, 5, 8 and 2 in the number below:-

9 3 5 8,2 <u>1</u>,7 Place Value of 1: 10 (1 tens)

Place Value of 5:

50000 (fifty thousands)

Place Value of 8: 8000 (eight thousands)

Place Value of 2: \_ 200 (two hundreds)

b) Write the above numbers in words

Nine Millions Three hundred and fifty eight thousand Two Hundred and Seventeen

Q2 Write the following numbers as digits

a) Sixty two thousand seven hundred and fifty two

62,752

b) Two hundred and Eleven Thousand and Sevent Two

211,072

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ORDERING AND COMPARING WHOLE NUMBERS



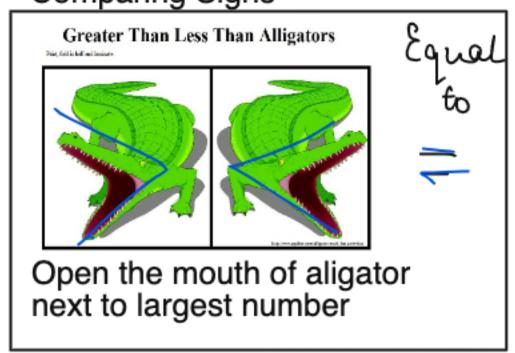
To Order Whole Numbers
Write them underneath each other
in their respective place values.

Start comparing from left to right.

Q1 Write in increasing order

211321, 621341, 123453, 321725

**Comparing Signs** 

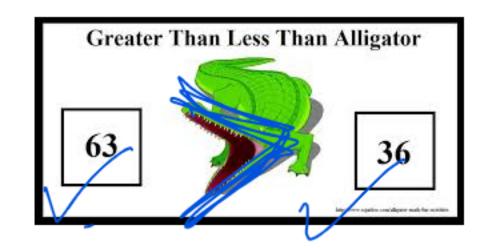


Q2 Write the correct signs 7231 23451

3211 3211

123456 78900

3212 4566

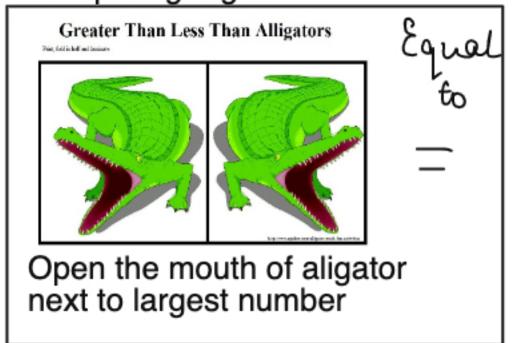




To Order Whole Numbers
Write them underneath each other
in their respective place values.

Start comparing from left to right.

### **Comparing Signs**



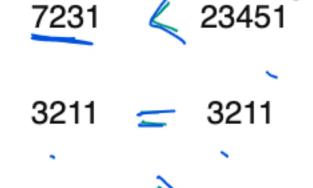
# ORDERING AND COMPARING WHOLE NUMBERS



#### Q1 Write in increasing order

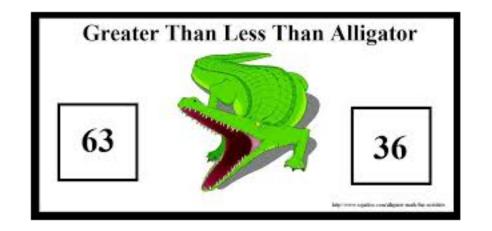


## Q2 Write the correct signs







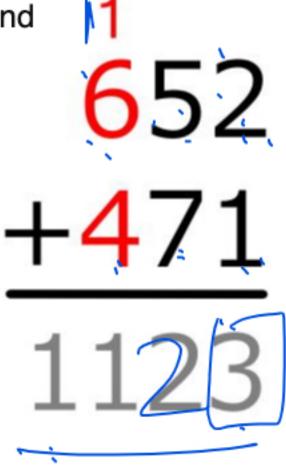






- a) Write the numbers underneath each in the same place value columns
- b) Start adding from the units
- c) Write the units and carry the tens

Q3 David spent \$500 on room rent, \$350 in Entertainment and \$299 in shopping. Work Out his Total Expense.

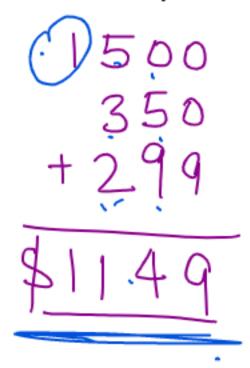


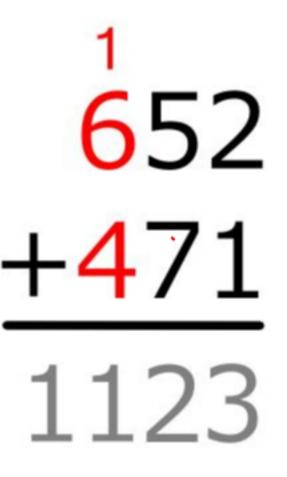




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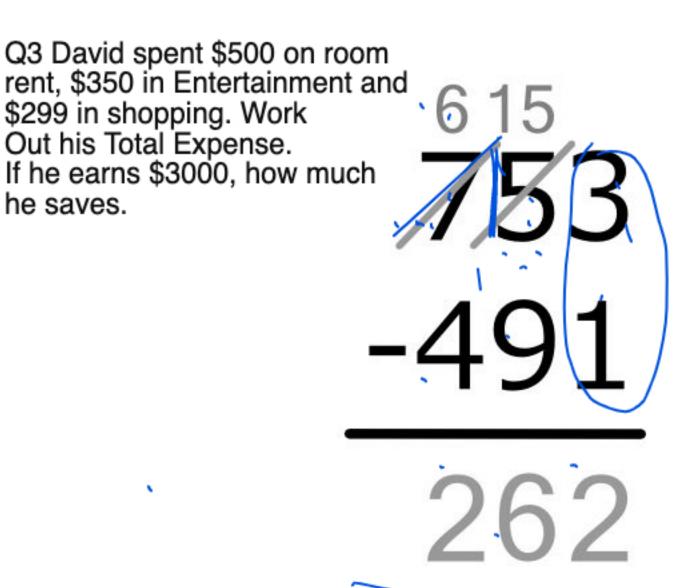






- a) Write the numbers underneath each in the same place value columns with bigger number add the top
- b) Start subtracting from the units.
- c) If there is a smaller number at the top then carry one digit from the neighbouring number and decrease its value by 1.

Q1 Subtract 299 from 900.

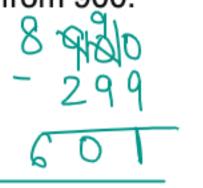


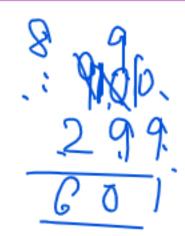




- a) Write the numbers underneath each in the same place value columns with bigger number add the top
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- c) If there is a smaller number at the top then carry one digit from the neighbouring number and decrease its value by 1.

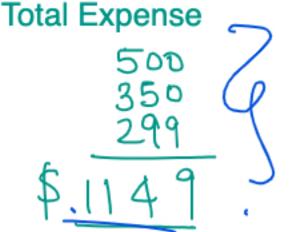
Q1 Subtract 299 from 900.

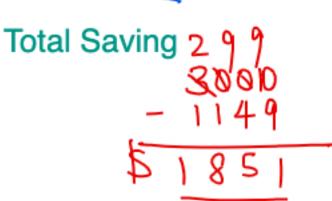




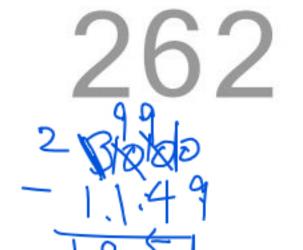
Q3 David spent \$500 on room rent, \$350 in Entertainment and \$299 in shopping. Work Out his Total Expense. If he earns \$3000, how much he saves.















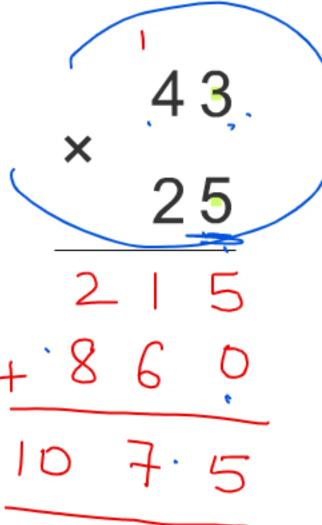
Multiply the units of a lower number with the top numbers.

Next Add Zero to the next line units and multiply the tens of a lower number with the top numbers.

Add the coloumns

Q1 Multiply 305 X 39

Q1 A Pack of pens cost \$20. I bought 22 packs. How much will I pay in total?





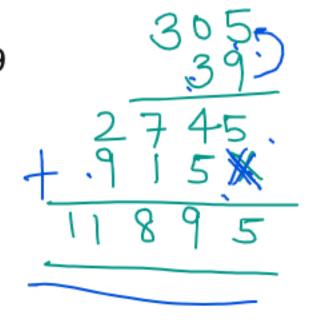


Multiply the units of a lower number with the top numbers.

Next Add Zero to the next line units and multiply the tens of a lower number with the top numbers.

Add the coloumns

Q1 Multiply 305 X 39



Q1 A Pack of pens cost \$20. l bought 22 packs. How much will I pay in total? 25 22x \$20





### Q1 Divide 1590 by 30

0476  $4 \div 9 = 0$  $9 \times 0 = 0$  $42 \div 9 = 4$ **→**36  $9 \times 4 = 36 68 \div 9 = 7$ 68  $9 \times 7 = 63$  $54 \div 9 = 6$  $9 \times 6 = 54$ 

Step 1: "How many times?"

Step 2: "Multiply"

Step 3: "Subtract"

Step 4: "Drop it down"

(repeat steps for each number, left to right)

Q2 I have 4550 boxes which I need to divide between 50 people. How much will each get?





|                 | 0476        |
|-----------------|-------------|
| $4 \div 9 = 0$  | 9)4284      |
| 9 x 0 = 0       | <u> </u>    |
| $42 \div 9 = 4$ | 4 2         |
| 9 x 4 = 36      | → 36        |
| $68 \div 9 = 7$ | 6 8         |
| 9 x 7 = 63      | → 63        |
| $54 \div 9 = 6$ | 5 4         |
| 9 x 6 = 54      | → <u>54</u> |
|                 | 0           |
|                 | 4           |

Step 1: "How many times?"

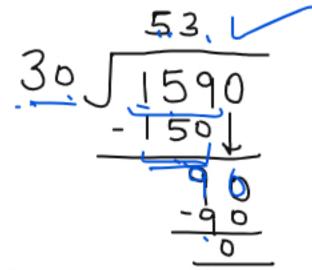
Step 2: "Multiply"

Step 3: "Subtract"

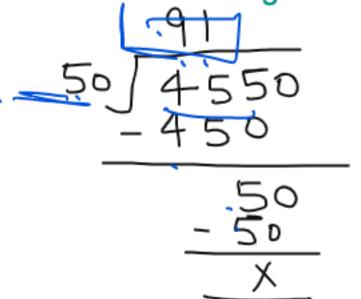
Step 4: "Drop it down"

(repeat steps for each number, left to right)

#### Q1 Divide 1590 by 30

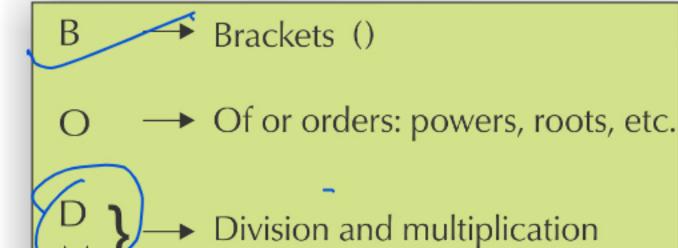


Q2 I have 4550 boxes which I need to divide between 50 people. How much will each get?









A Addition and subtraction

# Q1 Find the Following:-

a) 
$$(24 \div 6) + 3X5$$
  
 $4 + 15$ 

c) 
$$2x8 + 3^{2} + (50 \div 10)$$





B → Brackets ()

O → Of or orders: powers, roots, etc.

D Division and multiplication

 $\left\{ \begin{array}{c} A \\ S \end{array} \right\}$   $\longrightarrow$  Addition and subtraction

Q1 Find the Following:-

a) 
$$(24 \div 6) + 3 \times 5$$

c) 
$$2x8 + 3^{2} + (50 \div 10)$$







O → Of or orders: powers, roots, etc.

D Division and multiplication

 $\left\{ \begin{array}{c} A \\ S \end{array} \right\}$   $\longrightarrow$  Addition and subtraction

# Q1 Find the Following:-

a) 
$$(24 \div 6) + 3 \times 5$$
  
 $= 4 + 15$   
 $= 19$ 

$$\frac{2 \times 8 + 3 + (50 \div 10)}{16 + 9 + 5}$$



# WORD PROBLEMS



Q1 George bought 3 Story Books, 10 Fiction Books, 9 Science books and 2 Novel Books. Work out his Total Cost.

Story Book = \$25

Fiction Book= \$35

Science book=\$65

Novel Book= \$80

Q2 Lina has \$1000. How many Novel Books can she buy with that amount.

Q3 Carl has \$100 and he bought a 2 Fiction book and a Story Book. How much money will he have left?



# WORD PROBLEMS



Rate Chart

Story Book = \$25

Fiction Book= \$35

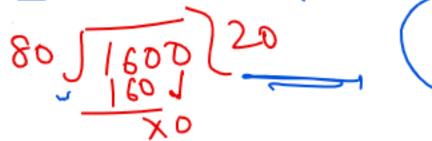
Science book=\$65

Novel Book= \$80

Q1 George bought 3 Story Books, 10 Fiction Books, 9 Science books and 2 Novel Books. Work out his Total Cost.

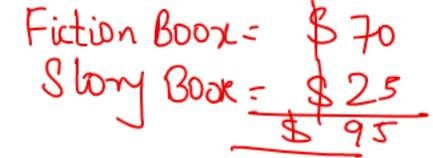
Q2 Lina has \$1600. How many Novel Books can she buy with that

amount.



Q3 Carl has \$100 and he bought a 2 Fiction book and a Story Book.

How much money will he have left?



20 Books.



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# **NEXT STEP**



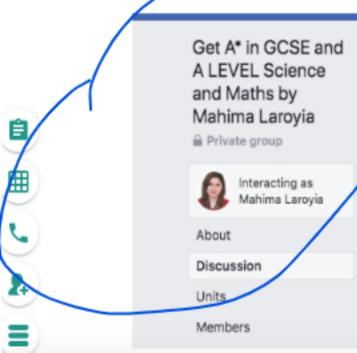
CHECK SPECIFICATION



EXAM QUESTIONS ON THE TOPIC



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TO THE MARKSCHEME? Online **Consultation with Mahima Laroiya Oxford Post Graduate with 10** years of

CONFUSING?

RUGGLING TO WRITE ACCORDING



#### ORDERING NEGATIVE NUMBERS



a) If a number is closer to zero it will be bigger as compared to the number further away from zero.

b) Negative numbers decreases as we move towards the left of the number line.

#### Q1 Write each sets of numbers from smallest to largest

a) 
$$\frac{10}{-5}$$
  $\frac{-5}{-1}$   $\frac{-1}{3}$   $\frac{8}{8}$   $\frac{-5}{5}$   $\frac{-1}{5}$   $\frac{3}{2}$   $\frac{8}{210}$   $\frac{5}{33}$   $\frac{-22}{47}$   $\frac{47}{8}$ 

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