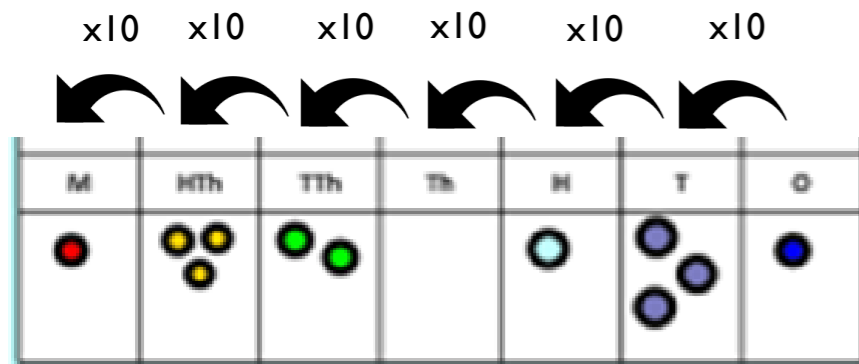




Mathematics Knowledge Organiser

Y5: Number

Place Value

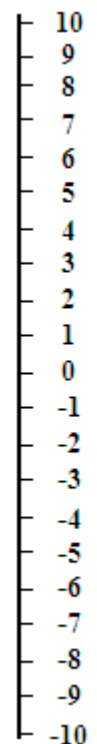


1,320,131 = One million, three hundred and twenty thousand, one hundred and thirty one.

Digits = 0 | 2 3 4 5 6 7 8 9

Number = Any combination of digits

Integer = Whole number



Positive numbers (greater than zero)

Negative numbers (less than zero)

Roman Numerals

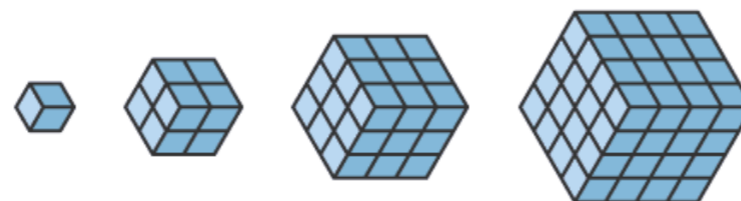
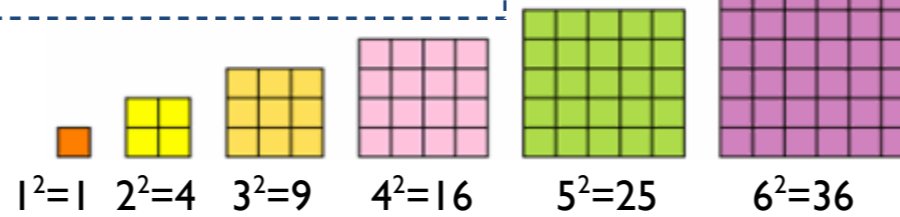
I	V	X	L	C	D	M
1	5	10	50	100	500	1000

Smaller number before— take away

Smaller number after— add on

Square/Cube numbers

Number² = number x number



Number³ = number x number x number

Factors and Multiples

Factor = Number that divides exactly into another number. Come in pairs. **E.g.**

Factors of 18: 1 and 18; 2 and 9; 3 and 6.

Multiple = Product when a number is multiplied by another number. **E.g. Multiples of 7:** 14, 21, 28, 35 etc.

Prime number = Number with only 2 factors—1 and itself.

Prime numbers to 20: * **2, 3, 5, 7, 11, 13, 17, 19***

Composite number = Not a prime number—has more

If $4 \times 6 = 24$

$$6 \times 4 = 24$$

$$24 \div 6 = 4$$

$$24 \div 4 = 6$$

Multiplication is the INVERSE of division

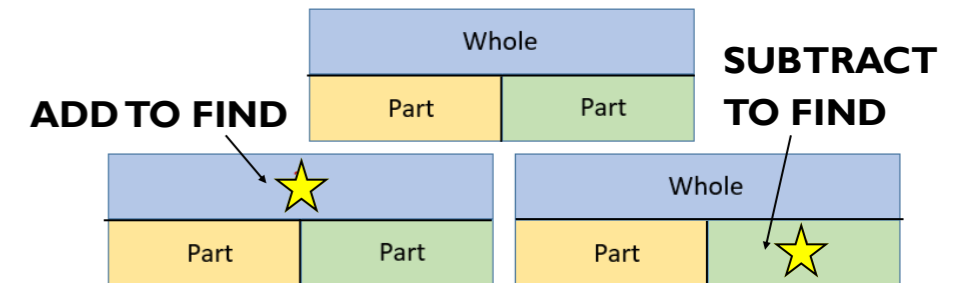
5—10—15—20—25—30—35—40—45...

25—50—75—100—125—150—175—200...

20—40—60—80—100—120—140—160...

15—30—45—60—75—90—105—120...

Part/Part/Whole



Number bonds to 20

19	1
18	2
17	3
16	4
15	5
14	6
13	7
12	8
11	9
10	10

Calculations

FACTOR

X FACTOR

PRODUCT

SUBTRAHEND

- MINUEND

DIFFERENCE

QUOTIENT

DIVISOR | DIVIDEND

> Greater than

< Less than

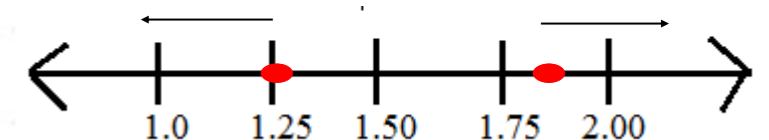
Rounding

Th	H	T	U	• Tths	Hths
Thousands	Hundreds	Tens	Units	Tenths	Hundredths
1	3	7	2	5	2
1	3	7	2	5	Nearest 1/10
1	3	7	3		Nearest 1
1	3	7	0		Nearest 10
1	4	0	0		Nearest 100

Look in the **next** place value column.

If the number is 5 or more: Round up.

If the number is 4 or less: Round down.



To the nearest whole:

1.25 rounds down to 1

1.77 rounds up to 2