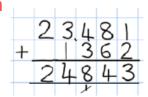
# The Four Operations in Year 5

## **Addition**

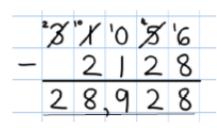


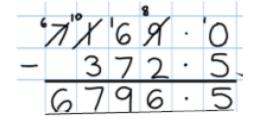
	£	2	3 •	•5	9
+		£	7 •	•5	5
	£	3	1 4	1	4
		1	1	1	

	1	9 (	•0	1
		3 •	6	5
+		0 •	7	0
	2	3 (	•3	6
	1	1		/

## Subtraction

Compact column method





## Multiplication

Step 1 - short multiplication for multiplying by 1 digit



	Н	Т	U
	3	2	7
×			4
١	3	0	8
		2,	

Step 2 - long multiplication for H T U multiplying by 2-digits 1 8

X 10 8 10 100 80 3 30 24

	1	8	
х	1	3	(0 v 2)
	2	4	(8 x 3) (10 x 3)
	3	0	(8 x10)
	8	0	(10 x10)
1	0	0	(10 × 10)
2	3	4	

Н	Т	U	
	1	8	
х	1	3	
	5	4	$(18 \times 3)$
1	8	0	(18 x 10)
2	3	4	

Step 3 - moving towards more complex numbers

	3	6	5	2
×				8
2	9	2		6
	5	4	1	

#### **Division**

#### Short division

$$4)7^{3}2$$

Estimate Calculate Check it!

## **Year 5 Key Maths Vocabulary**

Square Number: It is a number which can be represented in the shape of a square. A number that results from multiplying an integer by itself. It is also called perfect square. EXAMPLES: 4, 9, 16, 25, 36.

Cubed number: a number raised to the third power which is indicated by a small 3 to its upperright.



so 
$$5^3 = 125$$

#### **Prime Number:**

A number that has exactly two factors. A number that can only be divided evenly by itself and one.

EXAMPLES: 2, 3, 5, 7, 11, 13, 17, 19.

### Composite Numbers: A number with more than two factors.

$$16 = 1 \times 16$$
  $16 \div 1 = 16$   
 $16 = 2 \times 8$   $16 \div 2 = 8$   
 $16 = 4 \times 4$   $16 \div 4 = 4$ 

16 is a composite number. The factors of 16 are 1, 16, 2, 8, 4.

#### **Prime Factor:**

A prime factor is a prime number that divides exactly 20 into another given



Remainder: The amount left over after dividing a number.

Remainders can be written as a whole number, decimal or a decimal fraction

**Proper Fractions:** A fraction smaller than one whole.

The numerator is smaller than the denominator.



**Improper Fraction:** A fraction equivalent to or larger than one whole. The numerator is larger than or equal to the denominator.



## Mixed Number A number written as a whole number with a

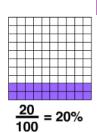
fraction.



#### Percentage:

A percent or percentage is a fraction expressed as a number out of 100 followed by the % symbol.

Diagonal



#### Volume

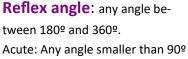
amount of space occupied by an object.

## Capacity:

The amount a container or something can hold.

#### **Negative Numbers**

any number less than zero. They are written with a minus sign.



Obtuse: Any angle that is between between 180° and 360° 90º and 180º



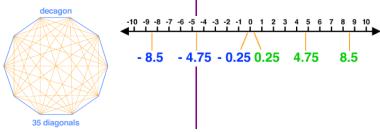
by itself,

Powers of 10 the number of times a base number is multiplied

indicated by a small number to its upper-right

e.g.  $10^5 = 10 \times 10 \times 10 \times 10 \times 10$ , read as 10 to the power of 5.

• the small number is called a power, an exponent, an index or order.



Quadrant: A quarter of a circle or its circumference or any quarter the same distance apart, never of a plane divided by

an x and y axis.

a line joining two non-adjacent

vertices or corners of a polygon.

Parallel: Equidistant, that is, touching.

## Perpendicular:

When two lines meet at right angles to the horizon or another object.

