Maths

Year 7 | Term 4 | Trinity MAT

Mathematical vocabulary

Let's look at some of the words you'll be using this term...

Key Words	Definition	Examples
Numerator	The **top number** in a fraction, which shows how many parts we have.	$\frac{3}{4}$ <— the **numerator** is 3
Denominator	The **bottom number** in a fraction, which shows how many equal parts the item is divided into.	$\frac{3}{4}$ <— the **denominator** is 4
Common Denominator	When two or more fractions have the **same denominator**.	$\frac{3}{5}$ and $\frac{2}{5}$ have a **common denominator**
Equivalent fractions	Fractions that have the **same value**, even though they contain different numbers.	$\frac{1}{2}$ and $\frac{3}{6}$ are **equivalent fractions**
Proper Fraction	A fraction where the numerator is **less** than the denominator.	$\frac{3}{4}$, $\frac{1}{6}$ and $\frac{5}{7}$ are **proper fractions**
Improper Fraction	A fraction where the numerator is **equal to or greater** than the denominator.	$\frac{5}{4}$, $\frac{8}{6}$ and $\frac{7}{7}$ are **improper fractions**
Mixed Number	A **whole number and proper fraction** combined into one number.	$1\frac{1}{2}$ and $3\frac{2}{5}$ are **mixed numbers**
Positive number	A number that is **greater than zero**.	**5, 0.01,** and $\frac{3}{5}$ are all greater than zero
Negative number	A number that is **less than zero**.	**-5, -0.01,** and $-\frac{3}{5}$ are all less than zero

Facts, formulae and procedures

Let's review some of the facts, formulae and procedures that you've learned in the past…

To convert a decimal to a percentage:

Multiply by 100

E.g. $0.13 \times 100 = 13$ so $0.13 = 13\%$

$0.7 \times 100 = 70$ so $0.7 = 70\%$

$0.125 \times 100 = 12.5$ so $0.125 = 12.5\%$

$1.02 \times 100 = 102$ so $1.02 = 1.02\%$

To convert a percentage to a decimal:

Divide by 100

E.g. $13 \div 100 = 0.13$ so $13\% = 0.13$

$5 \div 100 = 0.05$ so $5\% = 0.05$

$102 \div 100 = 1.02$ so $102\% = 1.02$

$1.02 \times 100 = 102$ so $1.02 = 1.02\%$

To convert a fraction to a decimal:

Divide the numerator by the denominator.

E.g. $\frac{2}{5} = 2 \div 5 = 0.4$ so $\frac{2}{5} = 0.4$

Number Facts

Factors of 24:

1

2

3

4

6

8

12

24

Some equivalent fractions, decimals and percentages:

$\frac{1}{2} = 0.5 = 50\%$

$\frac{1}{4} = 0.25 = 25\%$

$\frac{3}{4} = 0.75 = 75\%$

$\frac{1}{100} = 0.0.1 = 1\%$