

# 1. Number Review

Operations	Review calculations with all 4 operations (Add, subtract, multiply and divide). Include BIDMAS
Rounding and Estimation	Review rounding values to decimal places and significant figures.
Fractions	Review calculations of fractions (Add, subtract, multiply and divide). Include fraction of an amount.
Negative Numbers	Review addition, subtraction, multiplication and division of negative numbers.
Percentages	Finding a percentage of a number. Finding a percentage increase and decrease.

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### **Key Knowledge/Prior Learning KS2/3 and Retrieval and Suggested Starters**

- Understanding of place value
- Fractions
- BIDMAS
- Estimation
- Simplifying and equivalent fractions
- Negative numbers
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### **KS3 National Curriculum – what students will be practicing and Key Questions**

- Complete calculations of all 4 operations (Addition, subtraction, multiplication and division).
- Understand and apply the correct order of operations.
- Round values to different degrees of accuracy and use these to estimate calculations.
- Working with fractions including all 4 operations and finding a fraction of an amount.
- Work fluently with negative numbers
- Finding a percentage of an amount inc increases/decreases

### **Specific Ambitious Knowledge**

- Dividing fractions – KFC Vs Common denominator
- Percentage increase/decrease – through multipliers as well as percentages of amounts

### **Key Vocabulary/Literacy Opportunities**

- Addition
- Subtraction
- Multiplication
- Division
- Significant
- Decimal place
- Indices
- Numerator
- Denominator
- Multiplier

## Key Formulae/Knowledge

Key differences below – see year 7 MTPs for specific methods

### Dividing Fractions

$$\frac{2}{5} \div \frac{2}{3} \rightarrow \frac{2}{5} \times \frac{3}{2}$$

VS

$$\frac{6}{7} \div \frac{4}{7} = \frac{6}{4} = \frac{3}{2}$$

**Multipliers:** 100% +/- \_\_\_\_\_ = new percentage  
Divide by 100 = Multiplier

## Maths in Context (Historical, Real Life and Student Thinking Points).

## Projects/Enrichment/Investigations

Projects:  
Core:  
Budgeting

Upper:  
Budgeting

Set 1:  
Budgeting