2020-21

Key Methods Bank

Bishop Road Primary School

Contents
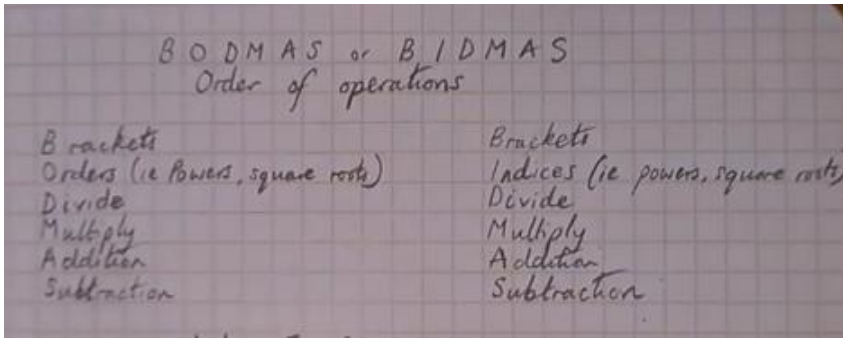
1) Number

Number – Place Value

How to read and write large numbers	https://www.youtube.com/watch?v=DKZ6udSI6Ew&t=217s&safe=active
How to partition numbers	https://www.youtube.com/watch?v=ocEagFKJ054&t=85s&safe=active
How to partition numbers in different ways	https://www.youtube.com/watch?v=GYeSA3k97Ts&safe=active
Understanding negative numbers	https://www.youtube.com/watch?v=FF7YgX585d0&safe=active
How to read and write Roman Numerals	https://www.youtube.com/watch?v=ufw0G3JAzBY&safe=active
How to solve number sequences	https://www.youtube.com/watch?v=ieHD_r9AJvc&safe=active
How to round numbers	https://www.youtube.com/watch?v=pZsbXpym6_g&safe=active
How to count on in 10s, 100s and 1000s	https://www.youtube.com/watch?v=9BkKcdKShK0&safe=active

Number – Four Operations

Order of operations	https://www.youtube.com/watch?v=JaWU1IkOU8g&t=1s

Number – Addition and Subtraction

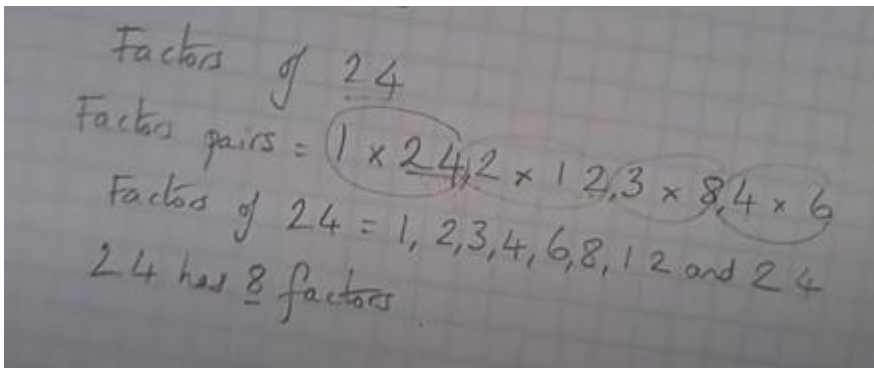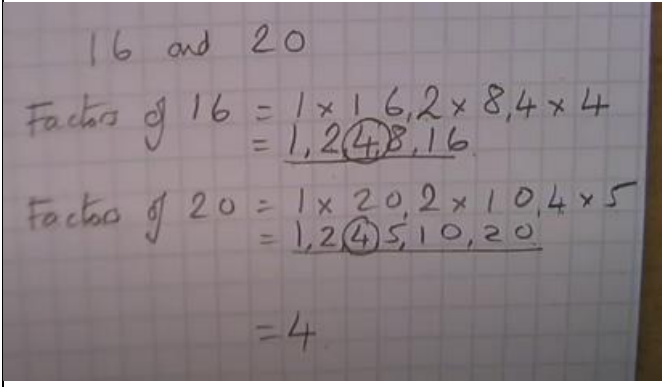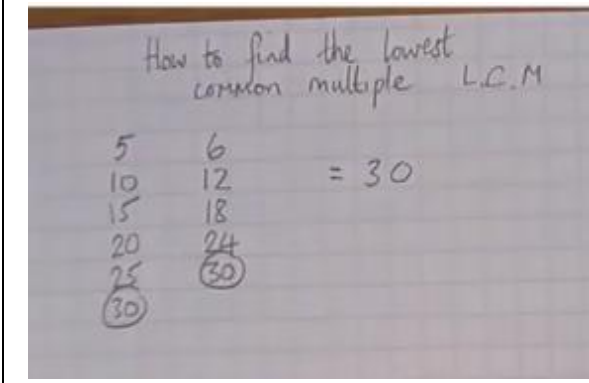| How to solve addition and subtraction worded problems	https://www.youtube.com/watch?v=GB05791Nzwo&safe=active
How to do inverse operations for addition and subtraction	https://www.youtube.com/watch?v=YCAIheaPnGg&safe=active
How to add and subtract decimal numbers	https://www.youtube.com/watch?v=Ta6ruTbDV0g&safe=active

Number – Addition

How to do column addition	https://www.youtube.com/watch?v=TGZ7oHCJkxs&safe=active See calculation policy pages 6-9 for further examples of this method.

Number – Subtraction

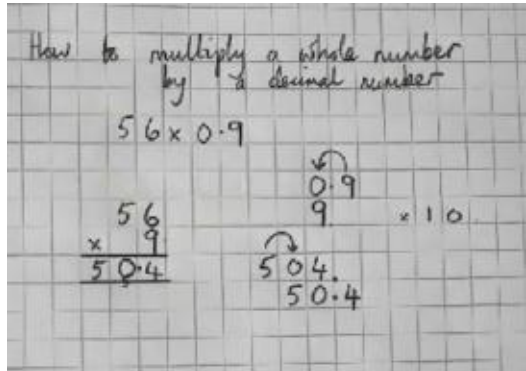| How to do column subtraction	https://www.youtube.com/watch?v=GmoY6-_MsJ4&safe=active See calculation policy page 12-15 for further examples of this method.

Number – Multiplication and Division

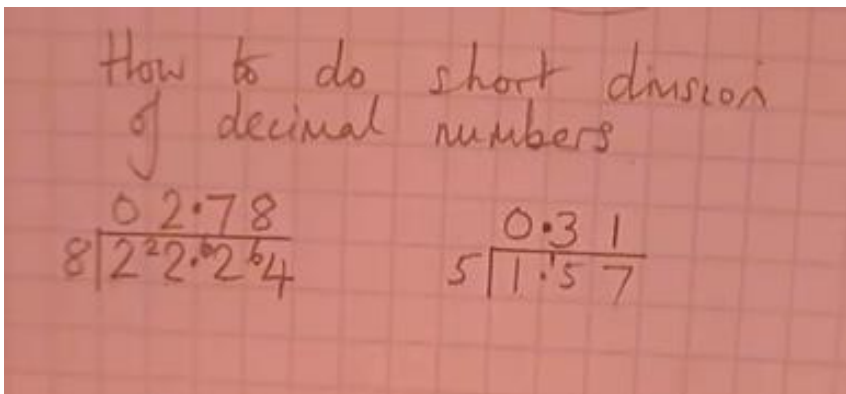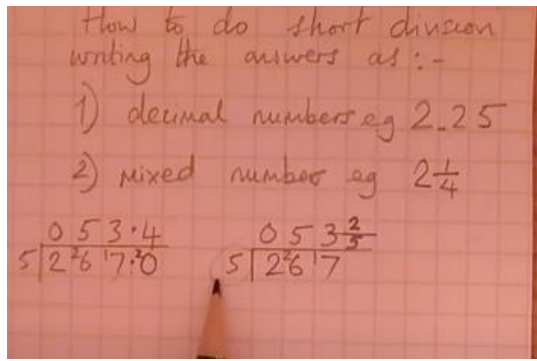| How to multiply and divide by 10, 100 and 1000	https://www.youtube.com/watch?v=oFY3oj-tD0Y&safe=active
How to find factors	https://www.youtube.com/watch?v=fcAdpiDHe-w&t=343s&safe=active

How to find the highest common factor	https://www.youtube.com/watch?v=seM06iJiPE0&t=240s&safe=active
How to find the lowest common multiple	https://www.youtube.com/watch?v=sdNBHFIyup0&t=87s&safe=active
'Finger Tricks' for multiplication and division	https://www.youtube.com/watch?v=OefSF803hBs&safe=active
How to solve multiplication and division worded problems	https://www.youtube.com/watch?v=CfBJVPfx9SQ&safe=active
How to do inverse operations for multiplication and division	https://www.youtube.com/watch?v=QAzKUMIQFW8&t=140s&safe=active

Number – Multiplication

How to do short multiplication: **Years 5/6**	https://www.youtube.com/watch?v=TEnRp_Wqssw&safe=active See calculation policy pages 20 and 21 for further examples of this method.
How to do long multiplication: **Years 5/6**	https://www.youtube.com/watch?v=Buu480-tjHU&t=5s&safe=active See calculation policy pages 20 and 21 for further examples of this method.
How to multiply multiples of 10	https://www.youtube.com/watch?v=7IDcNYhI-ao&safe=active

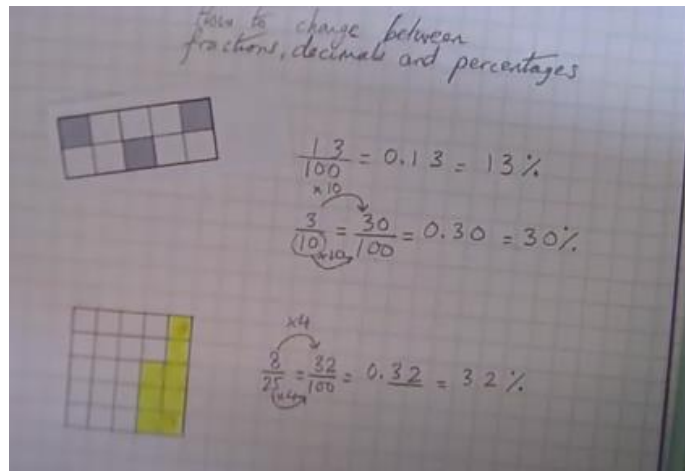| How to multiply 3 numbers together	https://www.youtube.com/watch?v=Rd0NBWyBjag&safe=active
How to multiply a whole number by a decimal number	https://www.youtube.com/watch?v=jKEko149uOI&t=132s&safe=active

Number – Division

How to do short division: **Years 5/6**	https://www.youtube.com/watch?v=vwD1vlX7A_0&safe=active See calculation policy page 26 for further examples of this method.
How to do long division: **Years 5/6**	https://www.youtube.com/watch?v=NbunJHnble4&safe=active See calculation policy page 27 for further examples of this method.
How to do short division with decimals	https://www.youtube.com/watch?v=YZMcU8dpVHg&t=118s&safe=active
How to write remainders as decimals or fractions	https://www.youtube.com/watch?v=pGksJ613Uj4&t=154s&safe=active

2) Fractions, Decimals and Percentages

Fractions, decimals and percentages

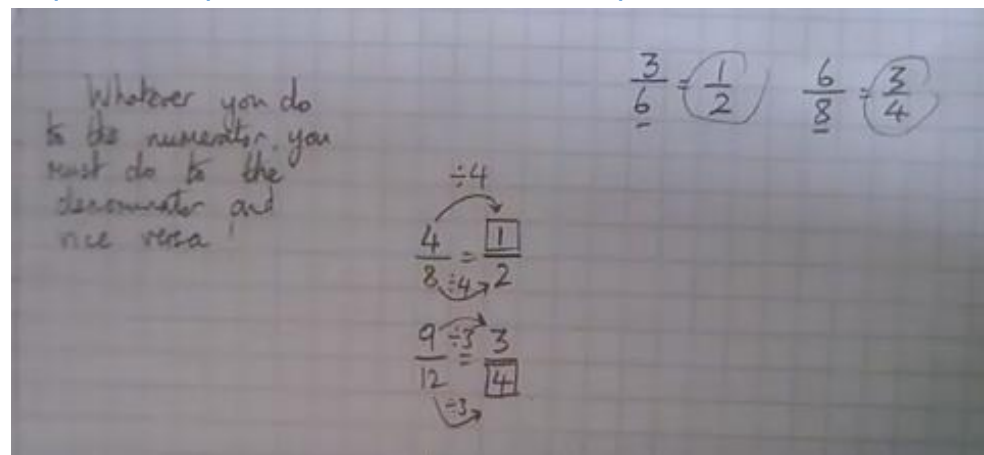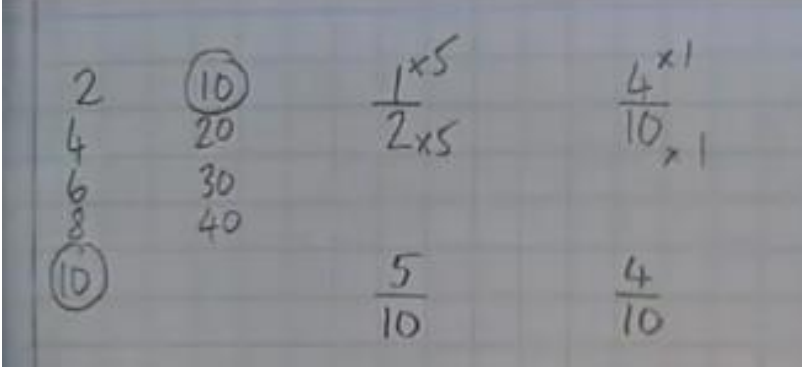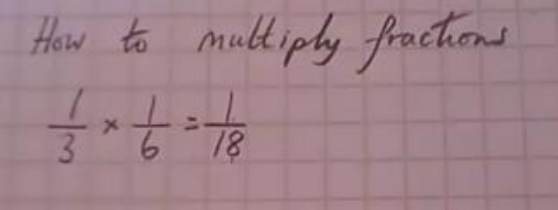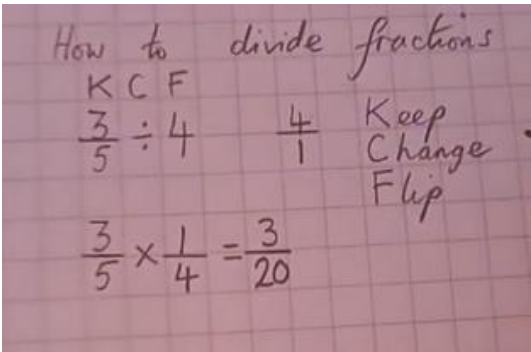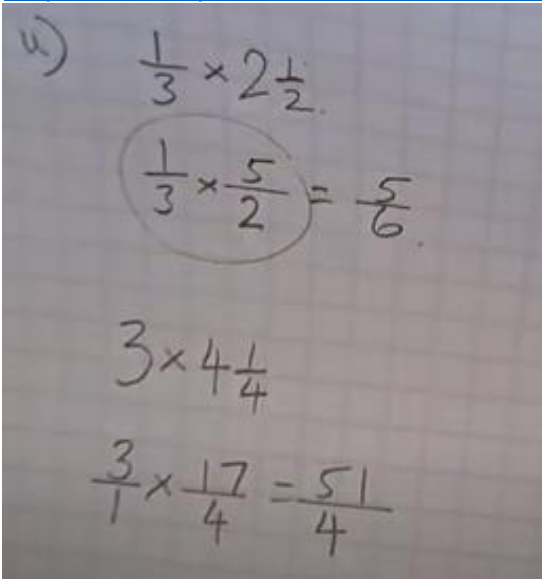| How to change between fractions, decimals and percentages	https://www.youtube.com/watch?v=Anin8BC-dM0&t=344s&safe=active

FDP – Fractions

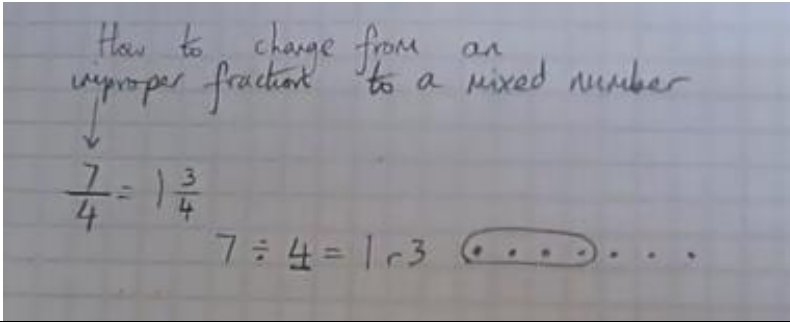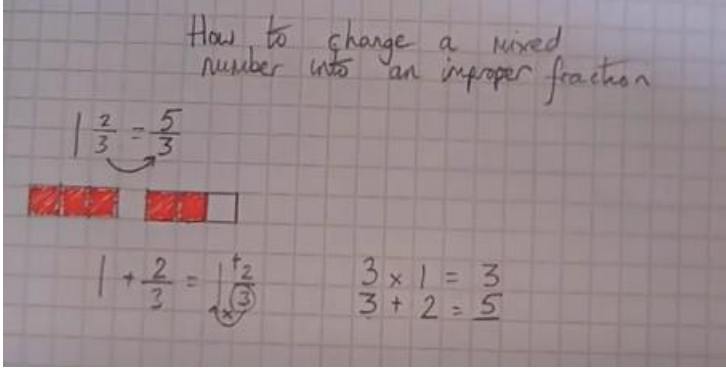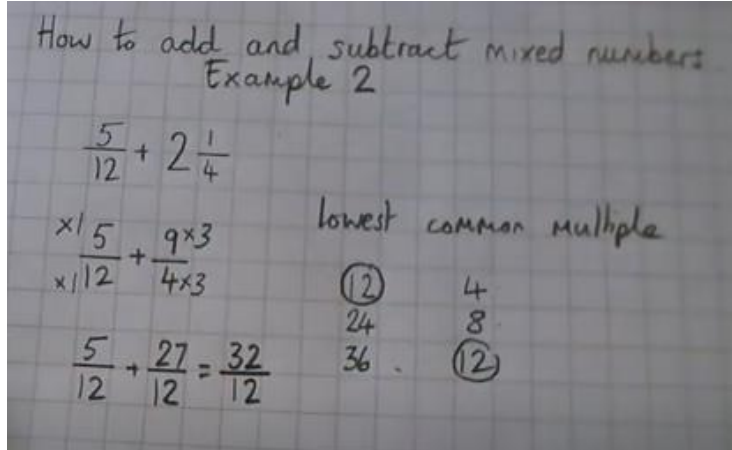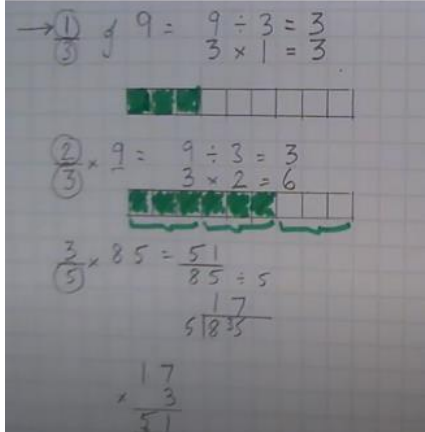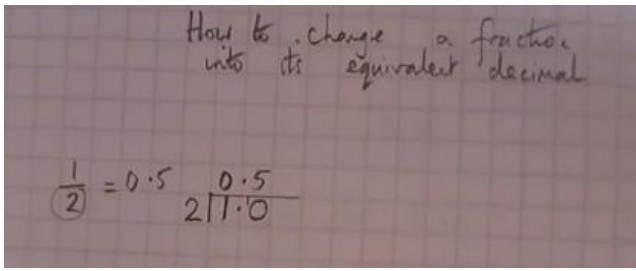| How to count in fractions, with and without a number line	https://www.youtube.com/watch?v=Fs4Kj5KhVZk&safe=active
How to simplify fractions	https://www.youtube.com/watch?v=rnJdCyzx34M&t=180s&safe=active
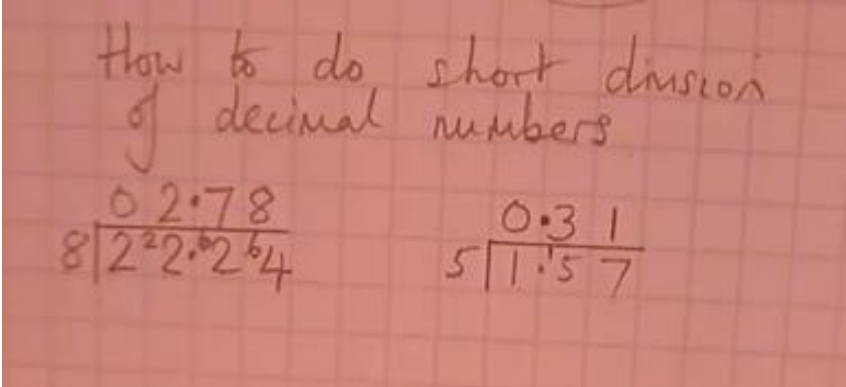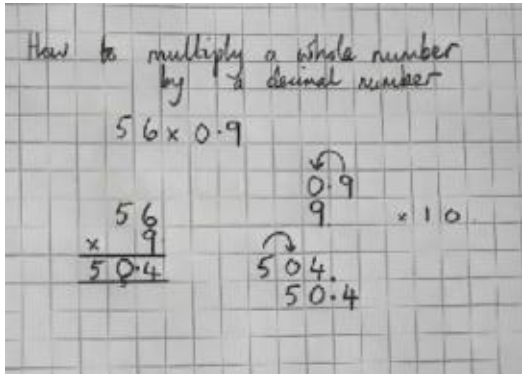
How to compare and order fractions	https://www.youtube.com/watch?v=ADwSC_zx64g&t=100s&safe=active
	$\frac{2}{4}$ ... (10), 20, 30, 40, (10) ... $\frac{1^{\times 5}}{2_{\times 5}}$ $\frac{4^{\times 1}}{10_{\times 1}}$ $\frac{5}{10}$ $\frac{4}{10}$
How to work out equivalent fractions	https://www.youtube.com/watch?v=vMIYH0dWzaU&t=127s&safe=active
How to multiply fractions	https://www.youtube.com/watch?v=BhSOoHKxpYg&t=58s&safe=active
	How to multiply fractions $\frac{1}{3} \times \frac{1}{6} = \frac{1}{18}$
How to divide fractions	https://www.youtube.com/watch?v=VRYQR-ht-Oo&t=210s&safe=active
	How to divide fractions KCF $\frac{3}{5} \div 4$ $\frac{4}{1}$ Keep Change Flip $\frac{3}{5} \times \frac{1}{4} = \frac{3}{20}$
How to multiply fractions by whole numbers and mixed numbers	https://www.youtube.com/watch?v=blJr3UyECc0&t=233s&safe=active
	4) $\frac{1}{3} \times 2\frac{1}{2}$ $\frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$ $3 \times 4\frac{1}{4}$ $\frac{3}{1} \times \frac{17}{4} = \frac{51}{4}$

|	
How to change from an improper fraction to a mixed number	https://www.youtube.com/watch?v=Eepc3G5nMYw&t=84s&safe=active
How to change from a mixed number to an improper fraction	https://www.youtube.com/watch?v=6-pmKey26NI&t=83s&safe=active
How to add and subtract mixed numbers	Example 1: https://www.youtube.com/watch?v=jVryLTnjhcI&safe=active Example 2: https://www.youtube.com/watch?v=0FlWi3tdVms&t=216s&safe=active
How to find a fraction of an amount	https://www.youtube.com/watch?v=qKzkn3yWSTI&t=206s&safe=active

How to change a fraction into its equivalent decimal	https://www.youtube.com/watch?v=XgpIOl41a7M&t=105s&safe=active

FDP – Decimals

How to add and subtract decimal numbers	https://www.youtube.com/watch?v=Ta6ruTbDV0g&safe=active
How to do short division with decimals	https://www.youtube.com/watch?v=YZMcU8dpVHg&t=118s&safe=active
How to multiply a whole number by a decimal number	https://www.youtube.com/watch?v=jKEko149uOI&t=132s&safe=active
Place value of decimals	https://www.youtube.com/watch?v=a-JoTsDukC8&safe=active
How to read decimals on a number line	https://www.youtube.com/watch?v=NmJj7LYcnvo&safe=active
How to round decimals	https://www.youtube.com/watch?v=VqHaN5ut7x8&t=29s&safe=active
How to order decimals	https://www.youtube.com/watch?v=s28vj4hA2DQ&t=368s&safe=active

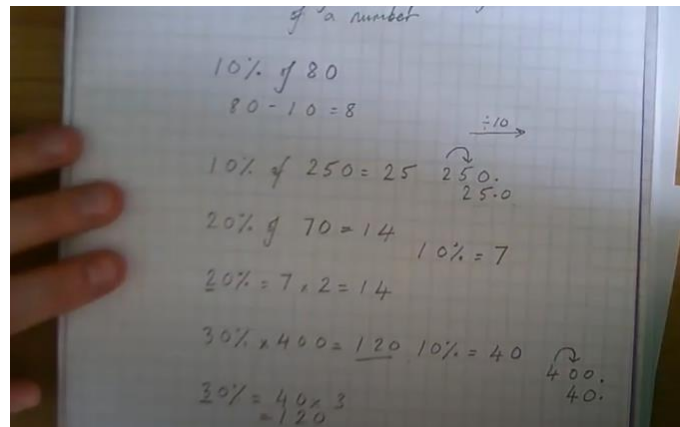| How to read and write decimal numbers as fractions and vice versa	https://www.youtube.com/watch?v=OZttF-tUx5Q&t=233s&safe=active
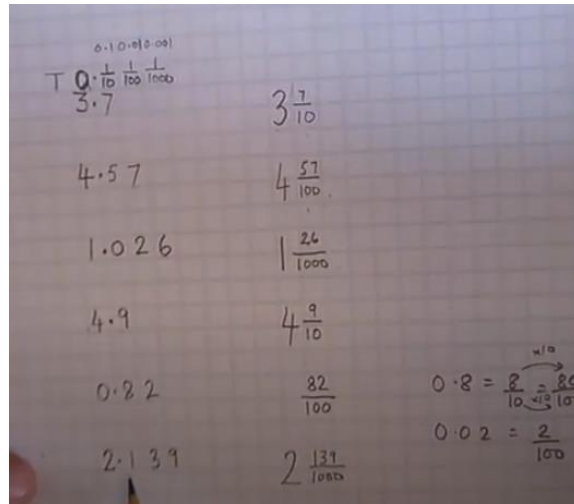
FDP – Percentages

Understanding percentages	https://www.youtube.com/watch?v=_mnXkl4y5pE&t=26s&safe=active
How to find a percentage of a number (10% and multiples of 10%)	https://www.youtube.com/watch?v=ucAQn9ocDt8&t=215s&safe=active
How to find percentages of amounts	https://www.youtube.com/watch?v=TDQJC9TzLf4&t=597s&safe=active
How to solve percentage problems	https://www.youtube.com/watch?v=s1Z2eGZNSUM&t=148s&safe=active
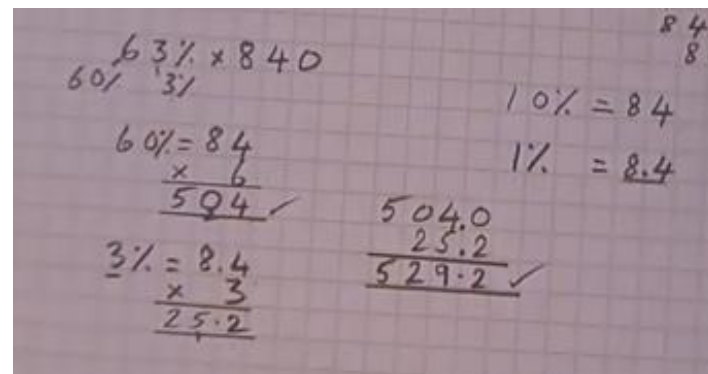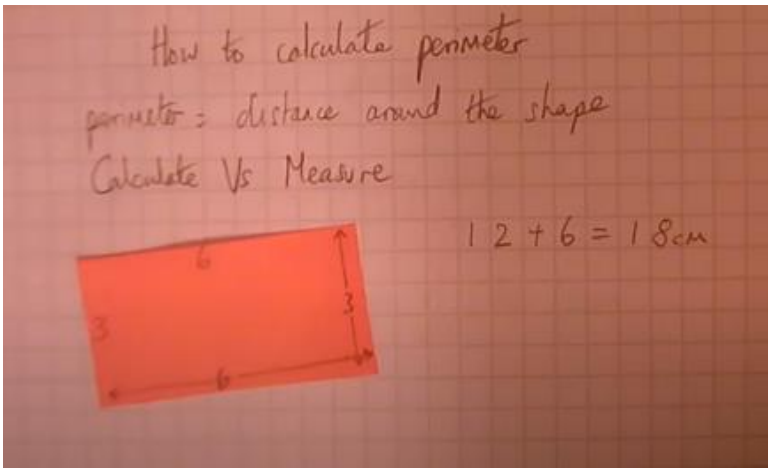
3) Ratio

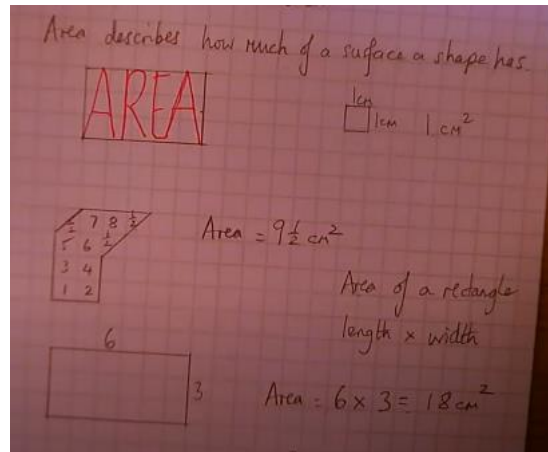| How to calculate scale enlargement	https://www.youtube.com/watch?v=ATgj_vXKEQY&t=173s&safe=active

4) Algebra

Algebra and inequalities	https://www.youtube.com/watch?v=jezPOgrggs0&safe=active

5) Measure

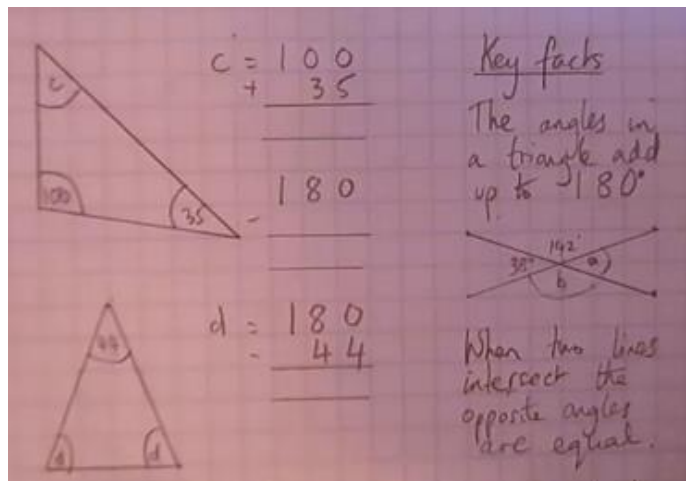| How to change between different units of mass and capacity	https://www.youtube.com/watch?v=aAV5Zcw1W9s&t=62s&safe=active
How to change between different units of length	https://www.youtube.com/watch?v=dUuaCb0XxjM&t=3s&safe=active
How to solve measure word problems	https://www.youtube.com/watch?v=BK4PzNzfV8c&safe=active
How to calculate perimeter	https://www.youtube.com/watch?v=q6JfIdhsCQw&t=49s&safe=active

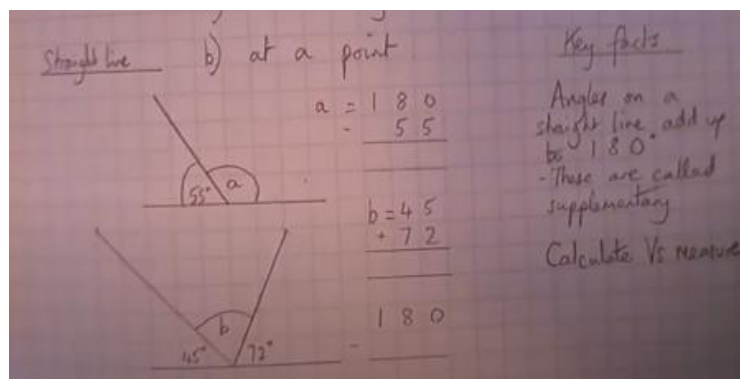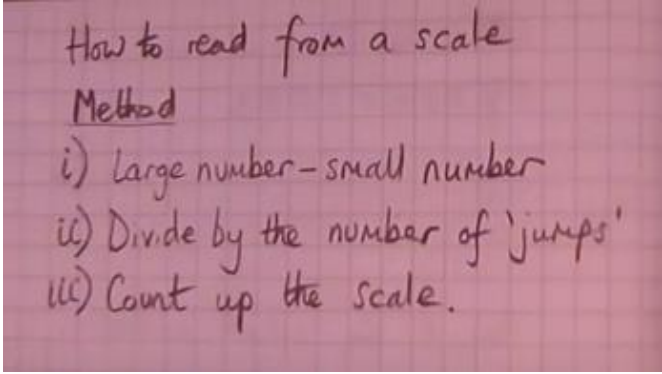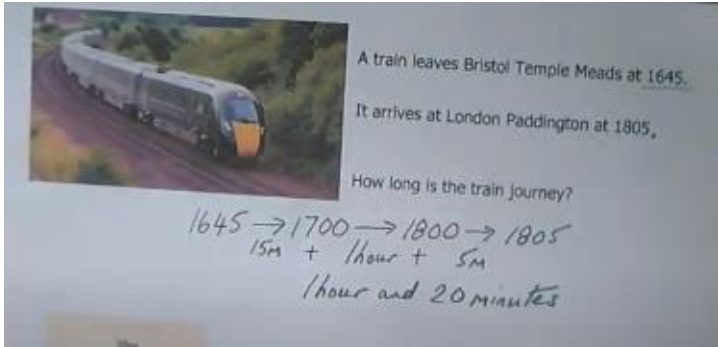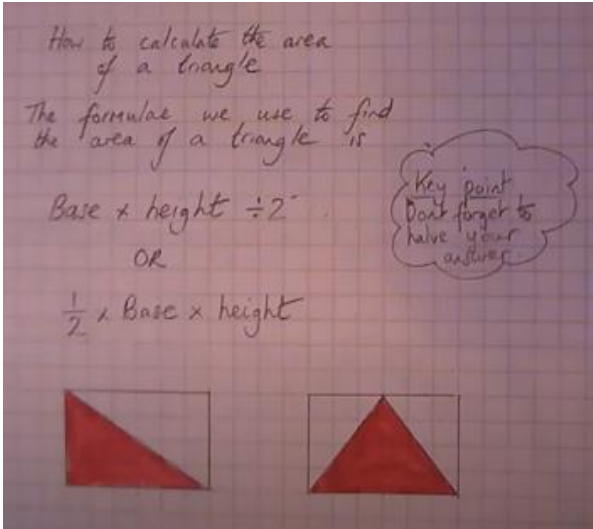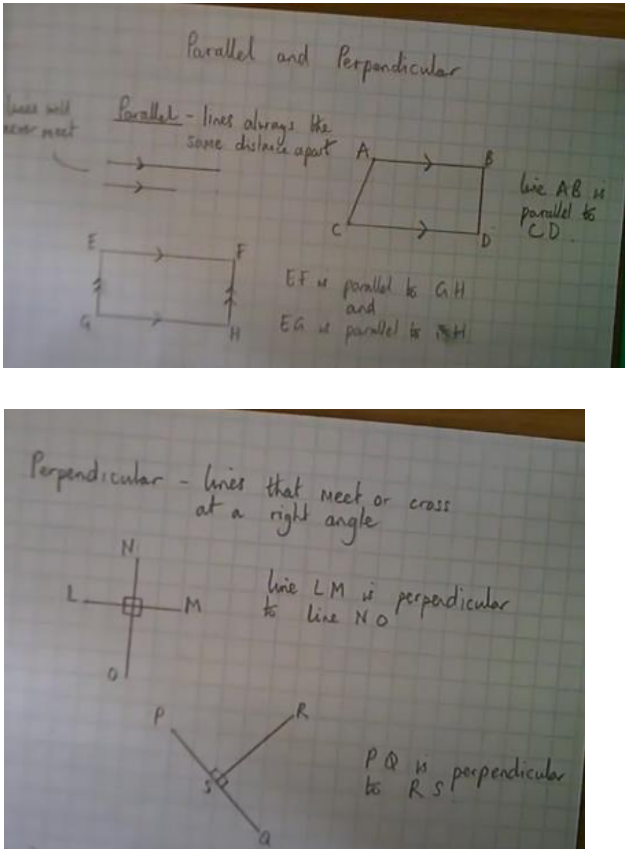|	
How to calculate area by counting squares and how to calculate the area of a rectangle	https://www.youtube.com/watch?v=WrUq8h0OtSI&safe=active
How to calculate angles in a triangle	https://www.youtube.com/watch?v=VlurjUnMhng&t=128s&safe=active
How to calculate angles on a straight line and angles around a point	https://www.youtube.com/watch?v=EMTrV8juhhw&t=253s&safe=active
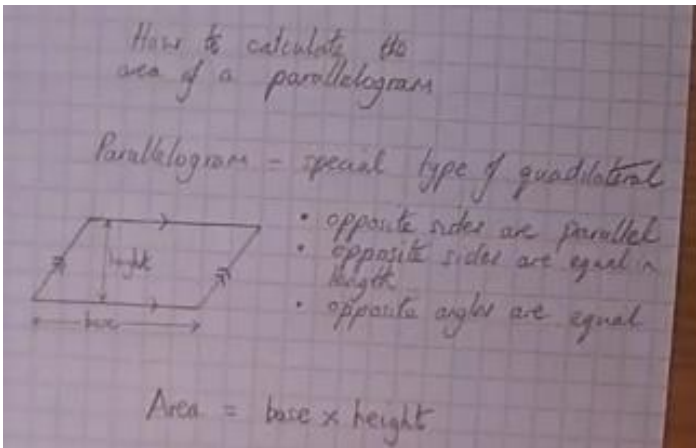
How to read from a scale	https://www.youtube.com/watch?v=_XQ-149T8YM&t=3s&safe=active
How to calculate time intervals	https://www.youtube.com/watch?v=m65jU8dv158&t=189s&safe=active
How to change between different units of time	https://www.youtube.com/watch?v=vjOJKTr2qVQ&t=162s&safe=active

6) Geometry

How to calculate the area of a parallelogram	https://www.youtube.com/watch?v=uOAh3NF6tC0&t=3s&safe=active

How to calculate the area of a triangle	https://www.youtube.com/watch?v=uRtU1f-3Ig0&safe=active
Parallel and perpendicular lines	https://www.youtube.com/watch?v=7JgwXRLtNx8&t=219s&safe=active

7) Statistics

How to read and use a timetable	https://www.youtube.com/watch?v=J-M8rpVgu1Y&t=189s&safe=active
How to interpret data	https://www.youtube.com/watch?v=VBx902Xy8Ko&safe=active