

Year 5

Termly Plans Academic Year 2021 - 2022

Teach Up

Mathematics
Lessons

Manageable
Steps

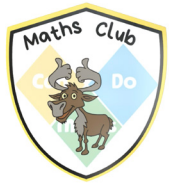
Intelligent Practice

Maths on Track
Meetings

Weekly
Suggestions

Deliberate Practice

Keep Up



Introduction

This termly plan has been carefully designed to support you to plan for successful learning of the year's maths from the National Curriculum.

The green sections provide the maths curriculum broken down into manageable steps

Manageable to teach and manageable to learn.

The blue lessons of 'Remember This' and 'Extra Problem Solving' provide flexibility within the timing of the plan for you to make decisions for your own class.

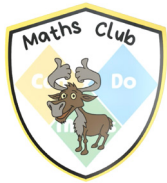
Remember It at the end of each term is a session to check the learning that has taken place during the term using the CanDoMaths Remember It for that term.

The second section on each termly plan, in blue, sets out a suggested structure for the second maths session each day - an essential element in the CanDoMaths curriculum plan.

The content on Monday and Tuesday is based on the Magic 24 from the ArithmeKit which is a separate resource that can be used to support your planning. The Magic 24 are key elements of arithmetic to secure during the year.

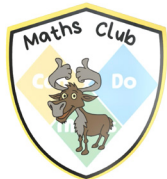
In your Wednesday and Thursday maths meetings it is suggested that you use deliberate practice to secure sustainable progress - based on past and present learning. You may want to use CanDoMaths Deliberate Practice and Retrieve It resources to support your planning for these sessions.

The bright pink fact column suggests a number fact to prioritise throughout the week and Friday is suggested as an opportunity to really hit a number fact hard. CanDoBonds, CanDoTables and CanDo21 are additional resources that would support your planning of these sessions.



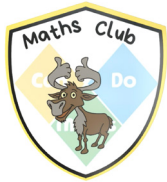
Year 5 Term 1

Term 1 W/c	KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
02/09/2021	T F	KPI 1, 2 6NPV-2, 3	Number and Place Value	TDD Represent 5-digit numbers	6 x table facts	CanDoTables 6x6
06/09/2021	M T W T F			Number and Place Value		Recognise the value of digits in 5-digit numbers
	Read 5-digit numbers in words and write using numerals including zero as a place holder		4.1 Order numbers beyond 1000 and position them on a number line			
	Read 5-digit numbers in numerals and write in words, including zero as a place holder		Deliberate Practice: Past and Present			
	Identify and represent 5-digit numbers on a number line		Deliberate Practice: Past and Present			
13/09/2021	M T W T F		Number and Place Value	Compare 5-digit numbers		CanDoTables 6x7
	Represent numbers up to one million			4.3 Round numbers to the nearest 10, 100 or 1000		
	Recognise the value of digits in numbers up to one million			4.3 Round numbers to the nearest 10, 100 or 1000		
	Read 6-digit numbers in words and write using numerals including zero as a place holder			Deliberate Practice: Past and Present		
20/09/2021	M T W T F		Number and Place Value	Read 6-digit numbers in numerals and write in words, including zero as a place holder		Deliberate Practice: Past and Present
	Identify and represent 6-digit numbers on a number line			CanDoTables 7x7		
	Compare 6-digit numbers			4.5 Use number facts to add		
	Order numbers up to one million	4.9 Use number facts to subtract				
27/09/2021	M T W T F	KPI 5 Decimals	Round any 5-digit number to the nearest 10 000	Deliberate Practice: Past and Present		
	Round any 6-digit number to the nearest 100 000		Deliberate Practice: Past and Present			
	Count forwards and backwards in whole number steps including through zero		CanDoTables 7x8			
	Understand and use negative numbers in context, including temperatures below 0°C		4.2 Order decimal numbers and position them on a number line			
04/10/2021	M T W T F	KPI 5 Decimals	Read Roman numerals to 1000 (M)	4.2 Order decimal numbers and position them on a number line		
	Recognise years written in Roman numerals		Deliberate Practice: Past and Present			
	Recognise that thousandths arise from dividing a number (or object) into one thousand equal parts and dividing hundredths by ten		Deliberate Practice: Past and Present			
	Read a number with three decimal places		CanDoTables 8x6			
11/10/2021	M T W T F	KPI 3 6NPV-1 Decimals	Represent decimal numbers with up to 3 decimal places	4.4 Round decimals with 1 decimal place to the nearest whole number		
	Write decimal equivalents of any number of thousandths		4.4 Round decimals with 1 decimal place to the nearest whole number			
	Identify decimal numbers, with up to 3 decimal places, on a number line		Deliberate Practice: Past and Present			
	Position decimal numbers, with up to 3 decimal places, on a number line		Deliberate Practice: Past and Present			
18/10/2021	M T W T F	KPI 3 6NPV-1 Decimals	Compare a set of numbers written to three decimal places	CanDoTables 8x8		
	Order decimal numbers with 3 decimal places		4.8 Choose appropriate written or mental methods to add 4-digit numbers			
	Compare numbers with a mixed number of decimal places		4.8 Choose appropriate written or mental methods to add 4-digit numbers			
	Order numbers with a mixed number of decimal places		Deliberate Practice: Past and Present			
18/10/2021	M T W T F	KPI 3 6NPV-1 Decimals	Round numbers with two decimal places to one decimal place	Deliberate Practice: Past and Present		
	Round numbers with two decimal places to the nearest whole number		CanDoTables 12x6			
	Identify cubes from nets		4.12 Choose appropriate written or mental methods to subtract numbers			
	Identify cuboids from nets		4.12 Choose appropriate written or mental methods to subtract numbers			
18/10/2021	M T W T F	KPI 3 6NPV-1 Decimals	Identify prisms from nets	Deliberate Practice: Past and Present		
	Identify pyramids from nets		Deliberate Practice: Past and Present			
End of Term Assessment: Remember It 1				CanDoTables 12x7		
Half Term						



Year 5 Term 2

Term 2. W/c		KPI	D/E RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check							
01/11/2021	M	KPI 6,7	4MD-1, 5MD-1	Addition and Subtraction	Add two whole numbers choosing an efficient mental strategy	12 x table facts	4.18 Double and halve numbers						
	T				Subtract two whole numbers choosing an efficient mental strategy		4.18 Double and halve numbers						
	W				Use column addition for two numbers with more than 4 digits when regrouping is required in multiple columns		Deliberate Practice: Past and Present						
	T				Use column subtraction for two numbers with more than 4 digits when exchanging is required in multiple columns		Deliberate Practice: Past and Present						
08/11/2021	F			KPI 8	4MD-1, 5MD-1		Addition and Subtraction	Use column addition for numbers with 3 decimal places when regrouping is required	12 x table facts	CanDoTables 12x8			
	M							Use column subtraction for numbers with 1, 2 or 3 decimal places when regrouping is required		4.19 Use place value and known facts to multiply mentally			
	T							Use column subtraction for numbers with 3 decimal places when exchanging is required		4.19 Use place value and known facts to multiply mentally			
	W							Use column subtraction for numbers with 1, 2 or 3 decimal places when exchanging is required		Deliberate Practice: Past and Present			
15/11/2021	T						KPI 8	4MD-1, 5MD-1		Multiplication and Division: Powers of 10	Add two decimal numbers choosing an efficient strategy	12 x table facts	Deliberate Practice: Past and Present
	F										Subtract two decimal numbers choosing an efficient strategy		Deliberate Practice: Past and Present
	M										Remember This?		CanDoTables 12x11
	T										Multiply a whole number by 10		4.23 Use place value and known facts to divide mentally
22/11/2021	W	KPI 8	4MD-1, 5MD-1			Multiplication and Division: Powers of 10				Multiply a whole number by 100	12 x table facts		4.23 Use place value and known facts to divide mentally
	T									Multiply a whole number by 1000			Deliberate Practice: Past and Present
	F									Multiply a whole number by 1000			Deliberate Practice: Past and Present
	M									Multiply a decimal by 10			CanDoTables 12x12
29/11/2021	T			KPI 8	4MD-1, 5MD-1	Multiplication and Division: Powers of 10			Multiply a decimal by 100	3xtable RelatedFact			4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
	W								Multiply a decimal by 1000				4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods
	T								Divide a whole number by 10				Deliberate Practice: Past and Present
	F								Divide a whole number by 100				Deliberate Practice: Past and Present
06/12/2021	M					KPI 9	5MD-2	Multiplication and Division: Properties of Number	Divide a whole number by 1000			3xtable RelatedFact	CanDo21 3x3
	T								Divide a decimal by 10				4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods
	W								Divide a decimal by 100				4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods
	T								Extra Problem Solving				Deliberate Practice: Past and Present
13/12/2021	F	KPI 9	5MD-2					Multiplication and Division: Properties of Number	Extra Problem Solving		3xtable RelatedFact		Deliberate Practice: Past and Present
	M								Remember This?				CanDo21 3x4
	T								Find prime numbers up to 20				5.2 Compare and order numbers up to 1,000,000
	W								Find prime and composite numbers up to 20				5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000
Christmas break	F			KPI 9	5MD-2			Multiplication and Division: Properties of Number	Express a given number as the product of prime factors	3xtable RelatedFact			Deliberate Practice: Past and Present
	M								Know how to test if a number up to 100 is prime				Deliberate Practice: Past and Present
	T								Find the common factors of two numbers				CanDo21 3x6
	W								Find multiples of a given number				5.2 Compare and order numbers up to 1,000,000
Christmas break	F					KPI 9	5MD-2	Multiplication and Division: Properties of Number	Find square numbers and use the notation for squared			3xtable RelatedFact	5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000
	M								Find cube numbers and use the notation for cubed				Deliberate Practice: Past and Present
	T								Extra Problem Solving				Deliberate Practice: Past and Present
	W								End of Term Assessment: Remember It 2				CanDo21 3x7



Year 5 Term 3

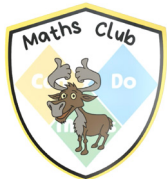
Term 3. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24						
04/01/2022	M	KPI 10	5MD-3	Multiplication and Division: Written Methods	TDD	3xTable RelatedFact							
	T				Remember This?		5.3 Compare and order decimals						
	W				Multiply numbers up to 4-digits by a one-digit number using short multiplication		Deliberate Practice: Past and Present						
	T				Multiply 2 digit by 2 digit numbers using the distributive law		Deliberate Practice: Past and Present						
10/01/2022	F							Multiply 2 digit by 2 digit numbers using long multiplication	CanDo21 3x8				
	M							Multiply 3 digit numbers by 2 digit numbers using long multiplication	5.3 Compare and order decimals				
	T							Multiply 4 digit numbers by 2 digit numbers using long multiplication	5.5 Round decimal numbers				
	W							Use efficient methods to multiply mentally	Deliberate Practice: Past and Present				
17/01/2022	T			KPI 12, 13			Multiplication and Division: Written Methods	Use known facts and place value to multiply a whole number by a decimal	3xTable RelatedFact	Deliberate Practice: Past and Present			
	F							Multiply a one-digit number by a decimal (1dp) using a formal written method		CanDo21 3x9			
	M							Multiply a one-digit number by a decimal (2dp) using a formal written method		5.3 Compare and order decimals			
	T							Extra Problem solving		5.5 Round decimal numbers			
24/01/2022	W	KPI 11	5MD-4			Multiplication and Division: Written Methods	Extra Problem solving	4xTable RelatedFact		Deliberate Practice: Past and Present			
	T						Extra Problem solving			CanDo21 4x4			
	F						Extra Problem solving			5.12 Multiply by 100, 100 and 1000			
	M						Extra Problem solving			5.17 Divide by 10, 100 and 1000			
31/01/2022	T									Multiplication and Division: Written Methods	Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with no remainder	4xTable RelatedFact	Deliberate Practice: Past and Present
	W										Divide a four-digit number by a one-digit number using short division (thousands digit = multiple of divisor, divisor < hundreds digit) with no remainder		Deliberate Practice: Past and Present
	T										Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with no remainder		Deliberate Practice: Past and Present
	F										Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with a remainder		CanDo21 4x6
07/02/2022	M					Geometry: Position and Direction	Extra Problem solving		4xTable RelatedFact	5.12 Multiply by 100, 100 and 1000			
	T						Extra Problem solving			5.17 Divide by 10, 100 and 1000			
	W						Extra Problem solving			Deliberate Practice: Past and Present			
	T						Extra Problem solving			Deliberate Practice: Past and Present			
14/02/2022	F			Geometry: Position and Direction	Extra Problem solving	4xTable RelatedFact	CanDo21 4x6						
	M				Remember This?		5.12 Multiply by 100, 100 and 1000						
	T				Describe a reflection		5.17 Divide by 10, 100 and 1000						
	W				Know what congruence means		Deliberate Practice: Past and Present						
	T			Geometry: Position and Direction	Carry out a translation described using mathematical language		4xTable RelatedFact	Deliberate Practice: Past and Present					
	F				Carry out a reflection using a line parallel to the axes including touching the object			CanDo21 4x7					
	M				Carry out a reflection using a line parallel to the axes and crossing the object			5.12 Multiply by 100, 100 and 1000					
	T				Describe a reflection			5.17 Divide by 10, 100 and 1000					
	W			Geometry: Position and Direction	Extra Problem solving			4xTable RelatedFact	Deliberate Practice: Past and Present				
	T				Extra Problem solving				Deliberate Practice: Past and Present				
	F				End of Term Assessment: Remember It 3				Deliberate Practice: Past and Present				
									CanDo21 4x7				

Half Term



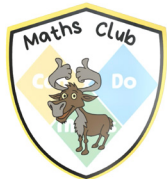
Year 5 Term 4

Term 4. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
28/02/2022	M	KPI 14 3F-3, 5F-2, 6F-2	2	Fractions, Decimals and Percentages	Remember This?	4xTable RelatedFact	4.6 Use place value or adjusting to add numbers mentally
	T				Identify equivalent fractions represented visually		4.16 Double decimal and whole numbers
	W				Compare fractions whose denominators are multiples of the same number		Deliberate Practice: Past and Present
	T				Order fractions whose denominators are multiples of the same number		Deliberate Practice: Past and Present
07/03/2022	F	KPI 15 (5F-3)		Fractions, Decimals and Percentages	Represent tenths and hundredths	4xTable RelatedFact	CanDo21 4x7
	M				Write a number less than 1 with one decimal place as a fraction		4.6 Use place value or adjusting to add numbers mentally
	T				Write a number less than 1 with two decimal places as a fraction		4.16 Double decimal and whole numbers
	W				Write a number less than 1 with three decimal places as a fraction		Deliberate Practice: Past and Present
14/03/2022	T	KPI 16		Fractions, Decimals and Percentages	Understand that per cent relates to number of parts per hundred	4xTable RelatedFact	Deliberate Practice: Past and Present
	F				Write any percentage as a fraction with a denominator of 100		CanDo21 4x8
	M				Write any percentage as a decimal		4.6 Use place value or adjusting to add numbers mentally
	T				Know percentage equivalents of 1/2, 1/4, 1/5, 2/5, 4/5		4.16 Double decimal and whole numbers
21/03/2022	W	KPI 17 5NPV-5		Measurement: Length, Mass and Capacity	Establish percentage equivalents of fractions with a denominator of multiples of 10	4xTable RelatedFact	Deliberate Practice: Past and Present
	T				Establish percentage equivalents of fractions with a denominator of multiples of 25		Deliberate Practice: Past and Present
	F				Extra Problem Solving		CanDo21 4x8
	M				Remember This?		4.9 Use place value or adjusting to subtract numbers mentally
28/03/2022	T			Measurement: Length, Mass and Capacity	Convert kilometres to metres using decimal notation	4xTable RelatedFact	4.21 Halve decimal and whole numbers
	W				Convert metres to kilometres using decimal notation		Deliberate Practice: Past and Present
	T				Convert metres to centimetres using decimal notation		Deliberate Practice: Past and Present
	F				Convert centimetres to metres using decimal notation		CanDo21 4x9
04/04/2022	M			Measurement: Length, Mass and Capacity	Convert between centimetres and millimetres using decimal notation	4xTable RelatedFact	4.9 Use place value or adjusting to subtract numbers mentally
	T				Calculate the perimeter of composite rectilinear shapes where all measurements are given including mixed units		4.21 Halve decimal and whole numbers
	W				Calculate the perimeter of composite rectilinear shapes where some measurements need to be calculated		Deliberate Practice: Past and Present
	T				Convert between kilograms and grams using decimal notation		Deliberate Practice: Past and Present
Easter Break	F			Measurement: Length, Mass and Capacity	Convert between litres and millilitres using decimal notation	4xTable RelatedFact	CanDo21 4x9
	M				Know approximate equivalences between metric and imperial units including pounds and pints		4.9 Use place value or adjusting to subtract numbers mentally
	T				Know approximate equivalences between inches and centimetres		4.21 Halve decimal and whole numbers
	W				Extra Problem Solving		Deliberate Practice: Past and Present
Easter Break	T			Measurement: Length, Mass and Capacity	Extra Problem Solving	4xTable RelatedFact	Deliberate Practice: Past and Present
	F				End of Term Assessment: Remember It 4		CanDo21 4x9



Year 5 Term 5

Term 5. W/c		KPI	D/E RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Fact Check	Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24	
25/04/2022	M	KPI 18	4F-2	Fractions: Calculating	Remember This?	5.14 Multiply numbers mentally using known facts and place value	5.14 Multiply numbers mentally using known facts and place value	
	T				Convert a mixed number into an improper fraction			5.22 Compare and order fractions
	W				Convert an improper fraction into a mixed number			Deliberate Practice: Past and Present
	T				Add proper fractions denominator multiples within the whole			Deliberate Practice: Past and Present
	F				Add proper fractions denominator multiples = mixed number answer			CanDo21 6x6
02/05/2022	M	KPI 19	4F-3	Fractions: Calculating	Bank Holiday	5.22 Compare and order fractions	5.22 Compare and order fractions	
	T				Add mixed number and proper fraction, same denominator = mixed number answer			Deliberate Practice: Past and Present
	W				Add mixed number and proper fraction, same denominator = mixed number answer (beyond whole)			Deliberate Practice: Past and Present
	T				Add mixed number and proper fraction, denominator multiples = mixed number answer			Deliberate Practice: Past and Present
	F				Add mixed number and proper fraction, denominator multiples = mixed number answer (beyond whole)			CanDo21 6x6
09/05/2022	M	KPI 20	4F-3	Fractions: Calculating	Extra Problem Solving	5.14 Multiply numbers mentally using known facts and place value	5.14 Multiply numbers mentally using known facts and place value	
	T				Subtract proper fraction from mixed number, same denominator within the whole			5.22 Compare and order fractions
	W				Subtract proper fraction from mixed number, same denominator (across whole)			Deliberate Practice: Past and Present
	T				Subtract proper fractions, denominator multiples within the whole			Deliberate Practice: Past and Present
	F				Subtract proper fractions from mixed number, denominator multiples within the whole			CanDo21 6x7
16/05/2022	M	KPI 21		Fractions: Calculating	Subtract proper fractions from mixed number, denominator multiples (across whole)	5.19 Divide numbers mentally using known facts and place value	5.19 Divide numbers mentally using known facts and place value	
	T				Extra Problem Solving			5.24 Solve problems: Percentage and decimal equivalents
	W				Extra Problem Solving			Deliberate Practice: Past and Present
	T				Multiply unit fraction by a whole number			Deliberate Practice: Past and Present
	F				Multiply non-unit fraction by a whole number			CanDo21 6x7
23/05/2022	M	KPI 21		Fractions: Calculating	Multiply mixed number by a whole number	5.19 Divide numbers mentally using known facts and place value	5.19 Divide numbers mentally using known facts and place value	
	T				Multiply mixed number by a whole number (beyond whole)			5.24 Solve problems: Percentage and decimal equivalents
	W				Extra Problem Solving			Deliberate Practice: Past and Present
	T				Extra Problem Solving			Deliberate Practice: Past and Present
	F				End of Term Assessment: Remember It 5			CanDo21 6x8
Half Term								



Year 5 Term 6

Term 6. W/c		KPI	DfE RTP	Maths Lessons: Intelligent Practice Lesson by Lesson Plan		Maths on Track: Deliberate Practice Suggested focus based on the ArithmeKit Magic 24
06/06/2022	M	KPI 22	5G-2	Measurement: Area and Volume	Remember This?	5.19 Divide numbers mentally using known facts and place value
	T				Make connections between arrays and calculating the area of rectangles	5.24 Solve problems: Percentage and decimal equivalents
	W				Calculate the area of rectangles (not squares)	Deliberate Practice: Past and Present
	T				Calculate the area of squares	Deliberate Practice: Past and Present
13/06/2022	F	KPI 23	5G-1	Measurement: Area and Volume	Find an estimate for the area of shapes that are not rectangles	CanDo21 6x8
	M				Find an estimate for the volume of a 3D shape	5.7 Add numbers with more than 4 digits using efficient methods
	T				Estimate capacity	5.13 Multiply numbers mentally using factors or partitioning
	W				Remember This?	Deliberate Practice: Past and Present
20/06/2022	T	KPI 24	5G-1	Geometry: Properties of Shapes	Identify reflex angles	Deliberate Practice: Past and Present
	F				know angles are measured in degrees	CanDo21 6x9
	M				Estimate acute, obtuse and reflex angles	5.7 Add numbers with more than 4 digits using efficient methods
	T				Use a protractor to measure acute angles	5.13 Multiply numbers mentally using factors or partitioning
27/06/2022	W	KPI 23	5G-1	Geometry: Properties of Shapes	Use a protractor to measure obtuse angles	Deliberate Practice: Past and Present
	T				Use a protractor to measure reflex angles	Deliberate Practice: Past and Present
	F				Use a protractor to measure reflex angles	CanDo21 7x7
	M				Use a protractor to draw acute angles	5.7 Add numbers with more than 4 digits using efficient methods
04/07/2022	T	KPI 24	5G-1	Measurement: Time	Use a protractor to draw obtuse angles	5.13 Multiply numbers mentally using factors or partitioning
	W				Use a protractor to draw reflex angles	Deliberate Practice: Past and Present
	T				Identify and find angles at a point	Deliberate Practice: Past and Present
	F				Identify and find angles at a point on a straight line	CanDo21 7x8
11/07/2022	M	KPI 24	5G-1	Measurement: Time	Use the properties of rectangles to find missing lengths and angles	5.10 Subtract numbers with more than 4 digits using efficient methods
	T				Know the difference between a regular and an irregular polygon	5.18 Divide numbers mentally using factors or partitioning
	W				Extra Problem Solving	Deliberate Practice: Past and Present
	T				Remember This?	Deliberate Practice: Past and Present
18/07/2022	F	KPI 24	5G-1	Statistics	Convert from seconds to minutes	CanDo21 7x8
	M				Convert from minutes to hours	5.10 Subtract numbers with more than 4 digits using efficient methods
	T				Convert from hours to days	5.18 Divide numbers mentally using factors or partitioning
	W				Convert from days to weeks	Deliberate Practice: Past and Present
End of Term Assessment: Remember It 6	F	KPI 24	5G-1	Statistics	Read and interpret information given in a timetable	Deliberate Practice: Past and Present
	M				Read and interpret information given in a table	Deliberate Practice: Past and Present
	T				Read and interpret information given in a line graph	CanDo21 7x9
	W				Extra Problem Solving	5.10 Subtract numbers with more than 4 digits using efficient methods
Summer Holiday						5.18 Divide numbers mentally using factors or partitioning
						Deliberate Practice: Past and Present
						Deliberate Practice: Past and Present
						CanDo21 7x9