

Taught: Autumn 2	Year Group: 7
concepts to be learnt ('Tell me about')	Websites/blogs/YouTube links and further reading to deepen and consolidate learning
e in numbers a number line ne nearest powers of 10 gers from a list mals tive powers of 10	https://vimeo.com/469025929 https://vimeo.com/471731445 https://vimeo.com/453593456 https://vimeo.com/522240829 https://vimeo.com/478518362 https://vimeo.com/491143317
f tenths and hundredths and decimal on a number line s and decimals rt	https://vimeo.com/481601101 https://vimeo.com/491237616 https://vimeo.com/481601482 https://vimeo.com/484049498
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Key Vocabulary and	Definitions To Be Learnt	What Will The Assessment Look Like?
Integer	Whole number	Please follow the link to a full breakdown of topics covered in November
Place Holder	'0' is used as place holder in decimals to compare and compute	assessment. Link:
Digit	Single number that has a particular value	You may also want to try some samples of questions:
Approximating	Rounding a number to close to what it is	Link:
Greater than	'>' an inequality symbol that shows left side is greater than the right side	
Less than	'<' an inequality symbol that shows left side is less than the right side	Family Learning Opportunities
Ascending order	Ordering from smallest to greatest	Support you child at busting XP levels on SPARX MATH
Descending order	Ordering from greatest to smallest	HOMEWORK.
Significant figure	The first (from the left) non-zero digit in a number	Test understanding by asking questions:
Equivalent	Same in value	 Recognise the place value in numbers Why do we need placeholders? What strategies can you use to work out the value of a digit in a very long integer? Understand and write integers:



	Why can we mark some numbers exactly on a number line but others only approximately? Describe the steps you need to take to read a number off a line of a scale.
	 Rounding of integers to the nearest powers of 10: Why do we round numbers? When talking about the population of the UK, would you round to the nearest hundred, thousand or million? What about the population of Leeds? Ordering/comparing integers: What do you look at first when comparing the size of two integers? What do you look at next? Is it true that if a > b and b > c then a > c? Why is the leading digit of a number important when ordering?
	For a set of integers, is the longest number always the largest number? • Find a range and median from a list:
	How do you calculate the range of a set of numbers? When given a list of numbers to find the range of, what might it be helpful to do first.
	What do you need to do first when finding the median of a list of numbers? What is different about the median and the range?
	 Ordering/comparing decimals: Why do we say "0.37" as "nought point three seven" rather than "nought point thirty-seven"? Why is 0.4 bigger than 0.29, even though twenty-nine is bigger than 4? How do we work out the size of an interval on a number line? What is different when thinking about the position of 0.3 and
	0.03? When you see a list of decimal numbers, is the longest number always the largest number? When ordering numbers, why are the leading digits important?



	 Rounding to 1SF: If when two numbers are rounded to one significant figure you get the same answer, does it mean the two numbers were the same? Explain how you estimate the answer to seventeen million multiplied by two point nine six.
	 Pictorial representation of tenths and hundredths: Is it possible to represent 120 hundredths on one hundred square? What could you do? What is the same and what is different between the counters showing decimals and counters showing fractions? How can you work out the value of each piece of Base 10? Do we need to split a number line into hundred parts in order to show hundredths? What interval is the number line going up in? How do you know? Are you counting in tenths or hundredths? How do you know? Simple conversion of FDP: How is fraction related to a decimal? How is percentage related to a fraction? How is 100% represented as a fraction? Is there more than one way? How is 100% represented as a decimal? Use and interpret Pie Chart: Why is it impossible to compare quantities by looking at two pie charts? What can we compare? How do fractions and percentages help us to do this?
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How accurate can we be estimating proportions from pie charts? • Representing fractions: Can you use the same diagram to represent both one-third and two-thirds? Does a diagram have to be cut into equal parts in order to identify the fraction shaded or not shaded? • Equivalent fractions: What makes a fraction equivalent to another fraction? How many equivalent fractions are there for any one fraction? Why are equivalent fractions useful in making comparisons? How are they used in day to day life? • Convert between FDP Why do we use all three representations of fractions, decimals and percentages? Where would you see each type? What happens if we try to change thirds into a decimal or percentage?
More: Find out why we use need Standard Form: https://youtu.be/uaGEjrADGPA
Have a look at interpreting Pie Charts: https://youtu.be/SxSewF7E1-0?si=rZ6Sr8Mgor6CNeD9
let's have some fun with FDP: https://youtu.be/REycq707eCk