Year 5 Number Fractions, Decimals and Percentages Learning Journey

Ready to Progress
Non-statutory guidance for key skills and knowledge needed
Resources, ideas and assessment questions available in the Maths Guidance NCETM

Year 4 Prior Learning	Year 5	NCETM
	Compare and order fractions whose denominators are multiples of the same number.	
	✓ Compare fractions whose denominators are multiples of the same number	
	✓ Order fractions whose denominators are multiples of the same number	
Recognise and show, using diagrams, families of common equivalent fractions	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths and understand they have the same position in the linear number system	
Recognise and write decimal equivalents of any number of tenths and hundredths	Read and write decimal numbers as fractions	
	✓ Write a number (less than 1) with 1 d.p. as a fraction	
	✓ Write a number (less than 1) with 2 d.p. as a fraction	
Recognise and write decimal equivalents to ¼; ½; 3/4	Recognise that thousandths arrive from dividing a number into one thousand equal parts and dividing hundredths by 10.	
	Recognise the % symbol and understand that per cent relates to a number of part per hundred and write % as a fraction with denominator 100 and as a decimal	
	✓ % = parts per hundred	
	✓ Write % as a fraction out of 100	
	✓ Write % as a decimal	
	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]	
	✓ Convert improper fractions into mixed numbers	
	✓ Convert mixed numbers into improper fractions	
Add and subtract fractions with the same denominator	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	
	✓ Add fractions when one denominator is a multiple of the other including mixed numbers as part of the question and/or answer.	
	✓ Subtract fractions when one denominator is a	

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	multiple of the other including mixed numbers as part of the question and/or answer	
	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	
	✓ Multiply a proper fraction by a whole number	
	✓ Multiply a mixed number by a whole number	
	Recall decimal fraction equivalents of 1/2, 1/4, 1/5, and 1/10 and for multiples of these	
	Solve problems which require knowing percentage and decimal equivalents of 1/2,1/4,1/5,2/5,4/5 and those fractions with a denominator of a multiple of 10 or 25	
	✓ Know percentage equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and fractions with a denominator of 10 and 100	
	✓ Establish percentage equivalents of fractions with a denominator of 20, 25, 40 and 50	
	✓ Know decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and fractions with a denominator of 10 and 100	
	✓ Establish decimal equivalents of fractions with a denominator of 20, 25, 40 and 50	

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