Jarrow Cross CE Primary School Numeracy Assessment – Year 5 (Notes & guidance; non-statutory)

NUMBER & PLACE VALUE	E	D	S
read & write numbers to at least 1 000 000 and determine the value of each digit			
count forwards & backwards in steps of powers of 10 for any given number up to 1 000 000			
interpret negative numbers in context			
count forwards & backwards with positive and negative whole numbers, including through zero			
round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000, 100 000			
solve number problems and practical problems that involve all of the above			
read Roman numerals to 1000 (M) and recognise years written in Roman numerals			
compare and order numbers to at least 1 000 000 using <,>, =			
recognise & describe linear number sequences including those involving fractions & decimals & find the			
term-to-term rule in words			
ADDITION & SUBTRACTION			
add & subtract whole numbers with more than four digits, including using column method			
add & subtract numbers mentally with increasingly large numbers			
use rounding to check answers to calculations			
solve addition & subtraction multi-step problems in contexts			
derive and recall sums and differences of decimals to one decimal place			
derive and recall what must be added to a one decimal place number to make the next whole number			
derive and recall what must be added to any 4-digit number to make the next multiple of 1000			
add & subtract any pair of decimals up to one decimal place			
derive and recall doubles and halves of decimals to one decimal place			
add near doubles of decimals to one decimal place			
MULTIPLICATION & DIVISION			
identify multiples and factors & find all factor pairs of a number & common factors of 2 numbers			
know & use the vocabulary of prime numbers, prime factors & composite (non-prime) numbers			
establish whether a number up to 100 is prime & recall prime numbers to 19			
multiply numbers up to 4 digits by a 1 or 2-digit number using a formal written method including long			
multiplication (for 2-digit numbers)			
divide numbers up to 4 digits by a one-digit number using the formal written method of short division and			
interpret remainders appropriately for the context in different ways (as fractions, decimals or by rounding)			
multiply & divide numbers mentally using known facts			
multiply & divide numbers involving decimals by 10, 100 and 1000			
recognise & use square numbers and the notation for squared (^)			
recognise & use cube numbers & the notation for cubed (3)			
solve problems involving multiplication and division including using their knowledge of factors and			
multiples, squares and cubes			
solve problems involving all 4 operations including understanding the meaning of =			
solve problems involving multiplication & division, including scaling by simple fractions and problems			
involving simple rates			
double three-digit multiples of 10 to 500 and find corresponding halves			
multiply and divide two-digit numbers by 4 and 8			
multiply two-digit numbers by 5 and 20			
multiply by 25 and 50			
double three-digit multiples of 10 to 500 and find the corresponding halves			
multiply pairs of multiples of 10			
estimate and use inverse operations to check answers to multiplication and division calculations with Y5			
criteria			
multiply & divide by powers of 10 in scale drawings			
multiply & divide by powers of 1000 in converting between units			
construct equivalent statements $(4x35 = 2x2x35 3x3x9x10 = 9^2x10)$	<u> </u>		
use = to indicate equivalence (13+24 = 12+25 33 = 5x?)	<u> </u>		
FRACTIONS	 		
compare and order fractions whose denominators are all multiples of the same number	 		
identify, name and write equivalent fractions of a given fraction represented visually including tenths &			
hundredths	 		
recognise mixed numbers and improper fractions and convert from one from to the other & write mathematical statements >1 as a mixed number $(2/5 + 4/5 = 6/5 = 1 1/5)$			
add & subtract fractions with the same denominator and denominators that are multiples of the same	\vdash		
number			
multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	\vdash		
read & write decimal numbers as fractions	\vdash		
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