Jarrow Cross CE Primary School Numeracy Assessment – Year 4 (Notes & guidance; non-statutory)

NUMBER & PLACE VALUE	Е	D	S
count in multiples of 6, 7, 9, 25 & 1000			
find 1000 more & less than a given number			
count backwards through zero to include negative numbers			
recognise the place value of each digit in a four-digit number (1000s, 100s, 10s, 1s)			
compare and order numbers beyond 1 000			
identify, represent & estimate numbers using different representations			
round any number to the nearest 10, 100 & 1000			
solve number and practical problems that involve all the above with increasingly large positive			
numbers			
read Roman numerals to 100 (I to C)			
connect estimation & rounding to the use of measuring instruments			
ADDITION & SUBTRACTION			
add & subtract numbers with up to 4 digits using the formal written column method			
estimate and use inverse operations to check answers to a calculation			
solve addition& subtraction 2-step problems in contexts			
derive and recall sums and differences of pairs of multiples of 10, 100 & 100			
add near doubles			
derive and recall what must be added to any three-digit number to make the next			
multiple of 100			
	-		
add & subtract a near multiple of 10 or 100 to any two-digit or three-digit number			
find the difference between near multiples of 1000			
MULTIPLICATION & DIVISION			
recall multiplication and division facts for multiplication tables up to 12 x 12	<u> </u>		
multiply mentally including by 0 & 1	<u> </u>		
divide mentally including by 0 & 1	<u> </u>		
multiply together 3 numbers using commutativity (4x12x5= 4x5x12= 20x12=240)			
multiply two & three-digit numbers by a one-digit number using formal written layout			<u> </u>
solve problems involving multiplying and dividing including scaling & harder correspondence			
such as <i>n</i> objects are connected to <i>m</i> objects			
derive and recall doubles of all numbers from 1 to 100 and corresponding halves			-
derive and recall doubles of all multiples of 10 and 100 and corresponding halves			
double any two-digit number			
double any multiple of 10 or 100 and halve the corresponding multiples			
halve any even number to 200			
recognise and use factor pairs and commutativity in mental calculations			<u> </u>
multiply whole numbers by 100			<u> </u>
recognise that hundredths arise when dividing an object by one hundred and dividing tenths by			
ten			-
estimate & use inverse operations to check answers to multiplication & division calculations			-
practise mental methods & extend to 3-digit numbers to derive facts (600÷3=200 as 2x3=6)			-
become fluent in the formal written methods of short multiplication & division			-
write statements about the equality of expressions $(39x7=30x7+9x7)$ $(2x6x5=10x6=60)$			<u> </u>
solve 2-step problems in context including correspondence questions			<u> </u>
FRACTIONS (including decimals)			<u> </u>
recognise and show, using diagrams, families of common equivalent fractions	<u> </u>		<u> </u>
count up and down in hundredths	├		
recognise that hundredths arise when dividing an object by 100 & dividing tenths by 10	<u> </u>		
solve problems involving increasingly harder fractions to calculate quantities, and fractions to			
divide quantities, including non-unit fractions where the answer is a whole number	<u> </u>		-
add & subtract fractions with the same denominator	<u> </u>		
recognise and write decimal equivalents of any number of tenths or hundredths	<u> </u>		
recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$			
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find the effect for dividing a 1 or 2-digit number by 100 & 100, identifying the value of the digits	
in the answer as ones, tenths & hundredths	
round decimals with 1 decimal place to the nearest whole number compare numbers with the same number of decimal places up to 2 decimal places	$\overline{}$
solve simple measure & money problems involving fractions & decimals to 2 decimal places	
connect hundredths to tenths, place value & decimal measures	
extend the use of the number line to connect fractions, decimals & measures	
understand the relation between non-unit fractions & multiplication & division of quantities, with	
particular emphasis on tenths & hundredths	
make connections between fractions of a length, of a shape & as a representation of a whole or	
set of quantites	
use factors & multiples to recognise equivalent fractions & simplify where appropriate	
add & subtract fractions with the same denominator through a variety of increasingly complex	
problems beyond one whole	
count forwards & backwars using simple fractions & decimals	
be able to represent numbers up to 2 decimal places in several ways, including on a number	
line	
MEASURES	
convert between different units of measure for length kilometre to metre	
convert between different units of measure for time hour to minute	
measure & calculate the perimeter of a rectilinear figure (including squares) in centimetres and	
metres	
find the area of rectilinear shapes by counting squares	
estimate, compare & calculate different measures, including money in pounds and pence	
read & write time from analogue	
read & write time from digital 12 and 24-hour clocks	
convert time between analogue and digital 12 and 24-hour clocks	
solve time problems converting from hours to mins; mins to seconds; years to months; weeks	
to days	
express perimeter formula algebraically 2(a+b)	
relate area to arrays & multiplication	
express area formula algebraically lxw	
GEOMETRY: PROPERTIES OF SHAPE	
compare and classify geometric shapes including quadrilaterals & triangles	
identify lines of symmetry in 2-D shapes presented in different orientations	
complete a simple symmetric figure with respect to a specific line of symmetry	
identify acute and obtuse angles	
compare and order angles up to two right angles by size	
compare lengths & angles to decide if a polygon is regular or irregular draw symmetric patterns using a variety of media to become familiar with different orientations	
of line symmetry	
GEOMETRY: POSITION & DIRECTION	
describe positions on a 2-D grid as coordinates in the first quadrant	
describe movements between positions as translations of a given unit to the left/right and	
up/down	
plot specified points and draw sides to complete a given polygon	
STATISTICS	
interpret & present discrete and continuous data using appropriate graphical methods, including	
bar charts and time graphs	
solve comparison, sum and difference problems using information presented in bar charts,	
pictograms, tables and other graphs	