

Mental Objectives

Year Three	Year Four	Year Five
<ul style="list-style-type: none"> • Count in multiples of 4, 8, 50 and 100 • Read and write & compare whole numbers up to 1000. • Know multiplication facts in 3, 4 & 8 x table • Use recall of 2,3,4,5, 8 & 10 x tables to multiply a 2 digit number • Add/subtract mentally incl: a 3 digit +/ – 1 digit number, 3 digit +/ – tens number, a 3 digit +/- hundreds number • Count on/back in 10s & 100s from any two- and three-digit number. • Recall addition and subtraction facts for each number up to 20, 50 and 100. • Recall pairs of multiples of 100 with a total of 1000. • Recall pairs of multiples of 5 with a total of 100. • Derive doubles of whole numbers to 50, corresponding halves. • Derive doubles of multiples of 5 to 100, corresponding halves. • Derive doubles of multiples of 50 to 500. • Derive near doubles. • Recall pairs of multiples of 100 with a total of 1000. • Order a set of three-digit numbers. • Find quarter of numbers • Recognise odd/even numbers to 100. • Add/subtract 9, 19, 29... and 11, 21, 31... • To add time & calculate difference between 2 given times • To convert equivalent measures in money, mm-cm, cm, m 	<ul style="list-style-type: none"> • Read and write whole numbers up to 10 000 & 100 000. • Round any three-digit number to the nearest 10, 100, 1000. • Find 1000 more or less than a given number • Count in multiples of 6, 7, 9, 25 and 1000 • Count backwards through zero to include negative numbers • Recognise place value in a 4 digit number • Read roman numerals to 100 • To mentally multiply/divide a round hundreds number by a single digit (eg 300 x3) • To recognise & use factor pairs • To find decimal equivalents for $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ etc • To divide whole integers 10 and 100 (to create decimals) • To round decimal to a whole number • To order decimals (up to 2 dp) • Mentally Add/subtract including 3 and 4 digit numbers eg 4512 – 300) • Add and subtract decimals to 2 decimal places mentally • Derive doubles of whole numbers to 100, corresponding halves. • Recall multiplication facts for all tables up to 12 x 12 • Derive doubles of multiples of 10 to 500, corresponding halves • Derive doubles of multiples of 100 to 5000, corresponding halves. • Halve and quarter numbers and amounts 	<ul style="list-style-type: none"> • Read write order & compare whole numbers up to 1 000 000. • Count on/back in equal steps (25, 100, 0.1, 0.2), including beyond zero. • Count on & back in steps of powers of 10 for any given number up to 1 000 000 • Count forwards backward in positive & negative numbers • Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 • Read roman numerals to 1000 & recognize years written in roman numerals • Mentally add & subtract increasingly larger numbers up to 4 and 5 digit numbers (e 12462 – 2300) • Add and subtract decimals to 2 decimal places mentally • Identify multiples and factors of numbers • To know & use prime, square & cube numbers • To multiply and divide mentally • To multiply whole & decimal numbers by 10, 100, & 1000 • To change fraction to equivalent decimals and percentages • To use decimals to 3 dp & relate them to tenths, hundredths thousandths • Find decimal pairs with sum of 1, 10 etc • Double or halve any whole number • Recall multiplication & division facts to 12 x 12 • Round decimals with 2 dp to nearest whole number/ tenth. • Order fractions.

<ul style="list-style-type: none"> • Sequences • Begin to know X facts for 6, 9, & 7 x tables • To divide integers by 10 • 	<ul style="list-style-type: none"> • Find equivalents between money • To convert between analogue & digital time • To convert between equivalent measures of length, mass & volume • Derive addition pairs that total 100, and multiples of 50 that total 1000. • Sequences • Multiply a simple decimal by a single digit • Add a 4 digit, a 2 digit & a 3 digit number together mentally 	<ul style="list-style-type: none"> • Convert between equivalent measures • Order positive and negative whole numbers; • Use doubling and halving to multiply or divide two-digit numbers by 4. • Multiply a simple decimal by a single digit • Add a 4 digit, a 2 digit & a 3 digit number together mentally • Calculating % on a calculator • Number problems involving inverse operation • Find fraction of number • Find % of amount and measure <p>Multiply and divide a 3 digit number by a 2 digit number</p>
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