MATHS Mental Objectives - Year 5

Southdale C of E Junior school
Shining like stars in the universe

Y4 OBJECTIVES SECURE BY END OF AUTUMN 1

Count from 0 in multiples of 4, 8, 6, 7, 9, 25 50 and 100 and 1000; find 10, 100 or 1000 more or less than a given number

Recognise the place value of each digit in a four-digit number (hundreds, tens, ones)

Add and subtract numbers mentally (add 99, 29, sets of three numbers)

Compliments to 100 and 1000 (number line)

Divide 100 and 1000 into 2,4,5 and 10 equal parts

Double and half numbers up to 4 digits

Multiply and divide by 10, 100

Scaling number facts 10 and 100

Solve simple measure and money problems involving fractions and (number line) including halving and doubling

Recall multiplication and division facts for multiplication tables up to 12 × 12

Use place value, known and derived facts to multiply and divide mentally

Multiplying together three numbers

Recognise common equivalent fractions

Count forwards and backwards in fractions (quarters, half, thirds, fifths tenths, hundredths etc)

Add and subtract fractions with the same denominator

Find unit and non unit fractions of quantities

Recognise and write decimal equivalents to half, quarter, three quarters, tenths, hundredths

Read time to the nearest minute convert time between analogue and digital 12- and 24-hour clocks

Converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle

Properties of 2d and 3d shapes

Count backwards through zero to include negative numbers

Round any number to the nearest 10, 100 or 1000, round decimals to nearest whole number

Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle

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SECURE BY END OF AUTUMN 2

Recognise the place value of each digit in numbers up to 1,000,000

Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000

Count forwards and 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 and 100 000

Round decimals with two decimal places to the nearest whole number and to one decimal place

Add and subtract numbers mentally with increasingly large numbers

Decimal compliments to whole numbers (using a numberline)

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

Read and write decimal numbers as fractions

SECURE BY END OF SPRING

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

Recall prime numbers up to 19

Multiply and divide numbers mentally drawing upon known facts

Recognise and use square numbers and cube numbers

SECURE BY END OF SUMMER

Compare and order fractions whose denominators are all multiples of the same number

Recognise mixed numbers and improper fractions and convert from one form to the other

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

Multiply proper fractions and mixed numbers by whole numbers,

Recognise and use thousandths

Write percentages as a fraction with denominator 100, and as a decimal

Know percentage and decimal equivalents of half, quarter, fifth, two fifths, four fifths and those fractions with a denominator of a multiple of 10 or 25.

Convert between different units of metric measure