

Mental Objectives Year 3



FOCUS: NUMBERS TO 1,000

Year Three Recall

- Sums and differences between pairs of numbers which are multiples of 10 and 100
 - Doubles and halves of multiples of 10 or 100
 - Complements to 100
 - Complements to 60 (time)
 - Complements of tenths that make 1
 - Complements of fractions with the same denominator that make 1 e.g. $\frac{3}{7} + \frac{4}{7} = 1$
 - $\times 3$, $\times 4$, $\times 8$ facts including division facts
 - Number of seconds in a minute
 - Number of days in a month and in a year including a leap year
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Autumn 1

Read and write numbers to 1000 in figures and words

Count on and back in 1s, 10s or 100s from any two- or three-digit number

Count on and back in multiples of 4 or 8 from 0

Order a set of random numbers to 1000

Recall addition and subtraction facts for each number up to 20

Recall sums of pairs of numbers which are multiples of 10

Recall sums of pairs numbers which are multiples of 100

Recall differences of pairs of numbers which are multiples of 10

Recall differences of pairs numbers which are multiples of 100

Recall pairs of multiples of 100 that make 1000

Recall multiplication facts for 2, 5 and 10 times tables and derive associated division facts

Double any multiple of 10

Halve any multiple of 10

Double any number up to 50

Halve any even two-digit number up to 100

Know number of seconds in a minute

Know number of days in a year, including a leap year

Autumn 2

Read and write numbers to 1000 in figures and words

Count on and back in 1s, 10s or 100s from any two- or three-digit number

Count on and back in multiples of 4 or 8 from 0

Order a set of random numbers to 1000

Recall addition and subtraction facts for each number up to 20

Recall sums of pairs of numbers which are multiples of 10

Recall sums of pairs numbers which are multiples of 100

Recall differences of pairs of numbers which are multiples of 10

Recall differences of pairs numbers which are multiples of 100

Recall addition and subtraction facts for 100 (multiples of 5 and 10)

Recall pairs of multiples of 100 that make 1000

Recall multiplication facts for 2, 3, 5 and 10 times tables and derive associated division facts.

Double any multiple of 10

Halve any multiple of 10

Double any number up to 50

Halve any even two-digit number up to 100

Know number of seconds in a minute

Know number of days in a year, including a leap year

Spring 1

Count on and back in 1s, 10s or 100s from any two- or three-digit number

Partition three-digit numbers in different ways, (e.g. $325 = 300 + 20 + 5$ but is also $200 + 125$ etc)

Order a set of random numbers to 1000

Recall addition and subtraction facts for each number up to 20

Recall sums of pairs of numbers which are multiples of 10

Recall sums of pairs numbers which are multiples of 100

Recall differences of pairs of numbers which are multiples of 10

Recall differences of pairs numbers which are multiples of 100

Recall addition and subtraction facts for 100 (multiples of 5 and 10)

Recall addition and subtraction facts for 100 (complements to 100) e.g. $37+63 = 100$, $63+37=100$, $100-63=37$, $100-37=63$

State the addition fact that links to a subtraction fact and vice versa

Recall multiplication facts for 2, 3, 4, 5 and 10 times tables and derive associated division facts

State the multiplication fact that links to a division fact and vice versa.

Double any multiple of 10

Halve any multiple of 10

Double any multiple of 100

Halve any multiple of 100

Double any number up to 100

Double any multiple of 50 up to 500

Halve any number up to 100

Count in fraction steps, e.g. $1/5$, $2/5$, $3/5$...

Know complements of fractions with the same denominator that make one e.g. $1/5 + 4/5 = 1$

Know complements to 60 (time)

Know number of seconds in a minute

Know number of days in a year, including a leap year

Spring 2

Count on and back in 1s, 10s or 100s from any two- or three-digit number

Partition three-digit numbers in different ways, (e.g. $325 = 300 + 20 + 5$ but is also $200 + 125$ etc)

Order a set of random numbers to 1000

Recall addition and subtraction facts for each number up to 20

Recall sums of pairs of numbers which are multiples of 10

Recall sums of pairs numbers which are multiples of 100

Recall differences of pairs of numbers which are multiples of 10

Recall differences of pairs numbers which are multiples of 100

Recall addition and subtraction facts for 100 (complements to 100) e.g. $37+63 = 100$, $63+37=100$, $100-63=37$, $100-37=63$

State the addition fact that links to a subtraction fact and vice versa

Recall multiplication facts for 2, 3, 4, 5 and 10 times tables and derive associated division facts

Double any multiple of 10

Halve any multiple of 10

Double any multiple of 100

Halve any multiple of 100

State the multiplication fact that links to a division fact and vice versa

Double any number up to 100

Double any multiple of 50 up to 500

Halve any number up to 100

Count in fraction steps, e.g. $1/5$, $2/5$, $3/5$...

Know complements of fractions with the same denominator that make one e.g $1/5 + 4/5 = 1$

Know complements to 60 (time)

Know number of seconds in a minute

Know number of days in a year, including a leap year

Summer 1

Recall sums of pairs of numbers which are multiples of 10

Recall sums of pairs numbers which are multiples of 100

Recall differences of pairs of numbers which are multiples of 10

Recall differences of pairs numbers which are multiples of 100

Count on and back in 1s, 10s or 100s from any two- or three-digit number

Partition three-digit numbers in different ways, (e.g. $325 = 300 + 20 + 5$ but is also $200 + 125$ etc)

Identify the value of each digit to one decimal place

Know complements of tenths that make one

Recall addition and subtraction facts for 100 (complements to 100) e.g. $37+63 = 100$, $63+37=100$, $100-63=37$, $100-37=63$ Mentally add groups of small numbers

Recall multiplication facts for 2, 3, 4, 5, 8 and 10 times tables and derive associated division facts

Double any multiple of 10

Halve any multiple of 10

Double any multiple of 100

Halve any multiple of 100

Double any number up to 100

Halve any number up to 200

Count in fraction steps, e.g. $1/5$, $2/5$, $3/5$...

Know complements of fractions with the same denominator that make one e.g $1/5 + 4/5 = 1$

Know complements to 60 (time)

Know number of seconds in a minute

Know number of days in a year, including a leap year

Summer 2

Recall sums of pairs of numbers which are multiples of 10

Recall sums of pairs numbers which are multiples of 100

Recall differences of pairs of numbers which are multiples of 10

Recall differences of pairs numbers which are multiples of 100

Count on and back in 1s, 10s or 100s from any two- or three-digit number

Partition three-digit numbers in different ways, (e.g. $325 = 300 + 20 + 5$ but is also $200 + 125$ etc)

Identify the value of each digit to one decimal place

Know complements of tenths that make one

Recall addition and subtraction facts for 100 (complements to 100) e.g. $37+63 = 100$, $63+37=100$, $100-63=37$, $100-37=63$

Recall addition and subtraction facts for multiples of 100 totalling 1000.

Mentally add groups of small numbers

Recall multiplication facts for 2, 3, 4, 5, 8 and 10 times tables and derive associated division facts

Double any multiple of 10

Halve any multiple of 10

Double any multiple of 100

Halve any multiple of 100

Double any number up to 100

Double any multiple of 50 up to 500

Halve any number up to 200

Count in fraction steps, e.g. $1/5$, $2/5$, $3/5$...

Know complements of fractions with the same denominator that make one e.g. $1/5 + 4/5 = 1$

Know complements to 60 (time)

Know number of seconds in a minute

Know number of days in a year, including a leap year