

Mata

ó

Mheabhair





* Nuair atáimid ag suimiú beidh an freagra níos mó/ Demonstrate that when adding answer will be bigger
  + Eg. 4 + 5 = 9, 14 + 5 = 19
* Nuair atáimid ag dealú beidh an freagra níos lú/Demonstrate that when subtracting answer will be smaller
  + 9 – 4 = 5, 19 – 5 = 14
* Cuntais in aonta, dónna, ar aghaidh agus ar gcúl/Count orally in 1’s and 2’s forwards and backwards within 20

2, 4, 6, 8, 10, 12, 14, 16, 18, 20

8, 7, 6, 5, 4, 3, 2, 1

16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6

Bheith eolach ar an uimhir roimh/idir/i ndiaidh laistigh de 20/Know number after, before and between within 20

Cad í an uimhir i ndiaidh?/What is the number after 11?

Cad í an uimhir roimh?/What is the number before 20?

* Cad í an uimhir idir 11 agus 13?/What is the number between 11 and 13?
* Cuir na huimhreacha seo in ord?/Order a set of random numbers within 20

9, 2, 17, 11, 18, 4

* Aimsigh an uimhir atá ar iarraidh i seicheamh?/ Identify a missing number within a sequence within 20

Eg. 6, 8, 10, \_, 14, 16, 18

* Cuir 1, 2 nó 0 le huimhir ar bith laistigh de 10/ agus laistigh de 20/Add 1, 2, 0 to any number answers within 10, then 20

4 + 1, 8 + 2, 7 + 2, 9 + 0

12 + 2, 16 + 1, 17 + 0, 19 + 1

* Bheith eolach ar na dúbailtí/Know doubles to 10 + 10

1. + 3, 4 + 4, 2 + 2, 1 + 1

5+5 , 6 + 6, 7+7, srl

Bí eolach ar uimhirscéalta a fhad le 10/Know the number stories to 10

4 + 1 = 5, 5 + 0 = 5 3 + 2 = 5

1 + 4 = 5, 0 + 5 = 5 2 + 3 = 5

* Bain 1, 2 nó 0 ó uimhir ar bith taobh istigh de 10?/Subtract 1, 2 or 0 from any number within 10

9 – 2 = 6 – 2 = 7 – 0 = 8 – 1 =

* Bí eolach ar dhlí comhmhalartach an tsuimithe/Demonstrate understanding of commutative nature of addition

1. + 2 = 16 2 + 14 = 16

4 + 5 = 9 5 + 4 = 9

* Scríobh 4 uimhirabairt ó 3 uimhir laistigh de 5/From 3 given numbers within 5 give 4 number facts

Eg. 2, 3, 5

1. + 3 = 5 3 + 2 = 5 5 – 3 = 2 5 – 2 = 3

**Rang 3**

* Aimsigh uimhir atá ar iarraidh ó seicheamh laistigh de 50/Identify a missing number in a sequence within 50
  + Eg. 34, 35, 36, 37, \_, 39, 40
* Cuntais ó bhéal in aonta, dónna, cúigeanna ar aghaidh agus ar gcúl ó/ go huimhir ar bith laistigh de 50/Count orally in 1’s, 2’s, 5’s and 10’s forwards and backwards from/to 0 within 50
* Cuntais ó bhéal in aonta, dónna, cúigeanna ar aghaidh agus ar gcúl ó/ go huimhir ar bith laistigh de 100/Count orally in 1’s, 2’s, 5’s and 10’s forwards and backwards from a given number within 100

eg. 25, 30, 35,40,\_, \_, 20, 30, 40, \_, \_,

* Aithin, léigh agus scríobh uimhreacha go 100/Recognise, read and write numbers to 100
  + Eg. 29, 47, 81, 98

tríocha a sé, caoga a seacht, ochtó a naoi

* Bheith eolach ar an uimhir roimh, idir agus tar éis/Know number before, after and between within 100
* Cuir tacar uimhreacha randamacha nó leantacha in ord laistigh de 50, agus 100/Order a set of consecutive/random numbers within 50, then 100
  + - Eg. 83, 72, 39, 91, 20 ( 20, 39, 72, 83, 91 )
* Bain úsáid as bunuimhreacha/Use ordinal numbers

An chéad, an dara, an tríú, an ceathrú, an cúigiú, an séú, an seachtú, an t-ochtú, an naoú, an deichiú

* Bí eolach ar dhlí comhmhalartach an tsuimithe/Demonstrate understanding of Commutative nature of addition
  + - Eg. 12 + 6 = 18 6 + 12 = 18
* Scríobh 4 uimhirabairt ó 3 uimhir laistigh de 5/From 3 numbers within 5 give 4 number facts
  + Eg. 2, 3, 5
    - 2 + 3 = 5 3 + 2 = 5
    - 5 – 3 = 2 5 – 2 = 3

Scríobh 4 uimhirabairt ó 3 uimhir laistigh de 10/From 3 numbers within 10 give 4 number facts

* + Eg. 7 3 10
    - 7 + 3 = 10 3 + 7 = 10
    - 10 – 3 = 7
    - 10 – 7 = 3
* Cuir 1, 2 nó 0 le / nó dealaigh 1, 2 nó 0 ó uimhir ar bith go 20 agus go 50/Add/subtract 1, 2 or 0 to/from any number within 20, then 50
* Bheith eolach ar na dúbailtí go 10 + 10/Know doubles to 10 + 10
  + - 6 + 6 = 12, 7 + 7 = 14, 8 + 8 = 16, 9 + 9 = 18,
    - 10 + 10= 20
* Bheith eolach ar na bealaí ar fad is féidir 10 a dhéanamh le 2 dhigit/Know components of 10
  + - 10 + 0, 0 + 10, 9 + 1, 1 + 9, 2 + 8, 8 + 2, 7 + 3,
    - 3 + 7
* Bheith eolach ar na firící eile laistigh de 10/Know all remaining single digit facts within 10
  + 4 + 3/3 + 4 6 + 3/ 3 + 6 5 + 3/ 3 + 5 4 + 5/ 5 + 4
  + 7 + 2/ 2 + 7
* Faigh an uimhir a chuirfidh tú le huimhir eile le 10 a dhéanamh/Find what must be added to a number to make 10
  + Eg. 3 + ∆ = 10, 2 + ∆ = 10, 6 + ∆ = 10, 9 + ∆ = 10
* Dealaigh uimhir 1 dhigit ó 10/Subtract a single digit from 10
  + - 10 – 6 = 10 – 3 =
* Suimigh uimhir 1 dhigit le 10 agus vice versa/Add a single digit to 10 and vice versa
  + - 10 + 6 10 + 8 7 + 10, 9 + 10
* Dealaigh 10 ó uimhir 2 dhigit laistigh de 20/Subtract 10 from a 2 digit number within 20
  + 16 – 10 13 -10 19 -10
* Cuir 10 le huimhir 2 dhigit nó bain 10 ó uimhir 2 dhigit laistigh de 50/Add/subtract 10 to/from a 2 digit number, answers within 50
  + - 32 + 10, 28 + 10, 45 – 10, 38 – 10
* Cuir iolraí de 10 le hiolraí de 10 nó bain iolraí de 10 ó uimhir 2 dhigit /freagraí laistigh de 50/Add/ subtract a multiple of 10 to/from a multiple of 10, answers within 50
  + 20 + 30, 40 + 10 50 – 10, 50 – 40
* Cuir iolraí de 10 nó bain iolraí de 10 ó uimhir ar bith 2 dhigit, freagraí laistigh de 50/ Add/subtract a multiple of 10/to/from any 2 digit number, answers within 50
  + - 12 + 30, 43 – 30, 26 + 30 47 – 20

A 50 array/100 square should be used for these mental calculations initially which will provide scaffolding for your child until he/she becomes confident with mental calculations.

**Rang 4**

* Add/subtract 1, 2 or 0 to any number, answers within 100

eg. 68 + 2, 93 – 2

* Add/subtract 10 to/from a 2-digit number, answers within 100

eg 65 + 10, 96 – 10

* Subtract a single digit from 20

eg. 20 – 8, 20 -17

* Add a single digit to a 2 digit number without bridging the 10 eg 53 + 6, 25 + 4
* Subtract a single digit from a number within 20 without bridging the 10

eg. 17-4, 19 – 7, 18 – 6

* From 3 given numbers within 20 give 4 number facts

Eg. 12, 6, 18

12 + 6 = 18 6 + 12 = 18 18 – 6 = 12

18 - 12 = 6

* Use extended addition/subtraction patterns within 100

Eg, 42 + 7 = 49 68 – 4 = 64

72 + 7 = 79 98 – 4 = 94

92 + 7 = 99

* Know that position of tens digit indicates its value

eg. 75 = 70 + 5 = 7 tens + 5 units

* Add 2 single digit numbers bridging 10

eg. 6 + 7, 9 + 8, 7 +9

* Know that any number subtracted from itself leaves 0

eg. 34 – 34 = 0

* Know that subtracting adjacent numbers leaves 1

Eg. 57 – 56 = 1, 78 – 77 = 1

* Know that subtracting adjacent but 1 numbers leaves 2

eg. 45 – 43 = 41, 69 – 67= 62

* Know half of all even numbers to 10

eg. ½ of 8 = 4

* Know half of 50 and 100
* Find half of even numbers to 20

eg. ½ of 18

* Know all single digit subtraction facts within 10

eg. 10 – 4, 10 -3, 10 – 9

* Subtract a single digit from a number within 20 bridging 10 eg. 12 – 8, 14 – 9
* Find what must be added to a number to make 20

eg. 3 +∆ = 20

* Find what must be added to a multiple of 10 to make 100

eg 50 + ∆ = 100

* Find what must be added to any 2 digit number to make the next highest multiple of 10

eg. 33 +∆ = 40

* Find what must be subtracted from any 2 digit number to make the next lower multiple of 10

eg. 47 - ∆ = 40

* Add/subtract a single digit to/from a 2 digit number, bridging the 10

eg. 34 + 7, 43 – 8, 67 + 8, 93 – 7

* Add/subtract a multiple of 10 to/from a multiple of 10, answers within 100
  + Eg. 30 + 40, 60 – 20 60 + 30
  + 90 – 50
* Add/subtract 9 or 11 to/from any 2 digit number, answers within 100

Use the 100 square

eg. 45 + 11, jump down from 45 to 55 and then across 1

65 + 9 jump down 1 column and then back 1 on the row

* Add/subtract a multiple of 10 to/from any 2 digit number, answers within 100

34 + 50, 89 – 40

* Use to add/subtract 21, 31, 19, 29 to /from any 2 digit number answers within 100

Eg. 47 + 29, 53 – 19

* From 3 given numbers within 50 give 4 number facts

Eg. 26, 3, 29

26 + 3 = 29 3 + 26 = 29

29 – 3 = 26 29 – 26 = 3

* Know doubles of multiples of 10 to double 50
  + eg double 30, double 40
* Round numbers within 100 to the nearest 10
* eg. 78/80, 62/60, 85/90
* Count orally in 1’s, 2’s, 5’s and 10’s forwards and backwards within 100
* Recognise, read and write numbers within 1000
* Eg. 456 = four hundred and fifty six= 400 + 50 + 6
* Order a set of consecutive/random numbers increasing/decreasing within 1000

Eg. 79, 19, 99 19, 79, 99

* Identify missing numbers in a sequence within 100

Eg. 45, 50, 55, 60, ∆, 70

* Know position of hundred digit indicates its value

Eg. 345 = 300 + 40 + 5

* Understand 0 in any number

60, 450, 305

Your child should use a 100 square to scaffold his/her learning until he/she gains confidence with mental calculations.

**Rang 5**

* Read/write simple fraction notation
  + eg. ½, ¼, ¾,
* Count forwards and backwards in halves and quarters
  + eg, ½, 1, 1 ½, 2, 2 ½, 3 ¼, ½, ¾, 1, 1 ¼, 1 ½, 1 ¾, 2, 2 ¼,
* know near doubles within 20
  + eg. 9 + 8, 7 + 8, 6 + 7,
* know components of the number 20
  + eg. 16 + 4, 18 + 2, 13+ 7, 17 + 3, 14 + 6, 15 + 5, 11 + 9, 12 + 8
* know all remaining addition facts within 20
  + eg. 11 + 5, 12 + 6, 13 + 4, 16 + 3, 14 + 5
* add 3 single digit numbers ( use strategies ie. Make 10, Use doubles/near doubles )
  + eg. 5 + 6 + 4 8 + 2 + 7 6 + 6 + 4
* Subtract any number from 20
  + Eg. 20 – 9, 20 -11, 20 -7, 20 – 6
* Know all remaining subtraction facts within 20
  + Eg. 18 – 7, 19 – 6, 17 – 9, 16 – 5
* Find halves of even numbers within 20
  + ½ of 16, ½ of 18, ½ of 14
* Find doubles of multiples of 10, then of 5 up to 95 + 95
  + Eg. 30 + 30, 60 + 60, 70 + 70
  + 25 + 25 35 + 35, 65 + 65
* Derive corresponding halves
  + Eg. ½ of 60, ½ of 120, ½ of 140
    - ½ of 70, ½ of 130, ½ of 190
* Find doubles of numbers of 100 up to 500 + 500
  + Eg. 300 + 300, 400 + 400
* Add/subtract 100 to/from multiples of 100 within 1000
  + Eg. 300 + 100, 700 – 100, 600 + 100, 900 – 100
* Add/subtract two digit numbers within 100, without bridging the 10
  + Eg 35 + 22, 67 – 34,
* Find what must be added to any 2 digit number to make 100
  + Eg. 34 + ∆ = 100
* Add/ subtract multiples of 100 to/from multiples of 100 within 1000
  + Eg. 300 + 400, 900 – 300
* Find what must be added to multiples of 100 to make 1000
  + Eg. 400 + ∆ = 1000 700 + ∆ = 1000
* Find what must be added to/subtracted from any 3 digit number to make the next higher/lower multiple of 10/100
  + - Eg. 234 + ∆ = 240, 456 - ∆ = 450
      * 647 + ∆ = 700 278 - ∆ = 200
* Add 100 to any 2 digit or 3 digit number within 1000
  + Eg. 478 + 100
* Subtract 100 from any 3 digit number
  + Eg. 478 – 100
* Add a multiple of 100 to a 2 digit multiple of 10
  + Eg. 30 + 400, 70 + 500, 90 + 300
* Add a multiple of 100 to any 2 or 3 digit number within 1000
  + 34 + 400, 79 + 500, 327 + 500 , 278 + 400
* Subtract a multiple of 100 from any 3 digit number
  + Eg. 578 – 300, 699- 400
* Calculate doubles of multiples of 50, answers within 1000
  + Eg. Double 450, double 350
* Derive corresponding halves
  + Eg. Find ½ of 700, ½ of 300, ½ of 900
* Calculate double of multiples of 10 up to 200
  + Eg. Double 130, double 190
* Derive corresponding halves
  + Eg. Find half of 260, of 380
* Know multiplication facts for 2, 3, 4, 5 Tables

Eg. Count easily in 3’s, 4’s etc

* Derive resulting division facts
  + Eg. 4 x 4 = 16 16 ÷ 4 = 4 ( how many groups of 4 in 16 )
* Multiply any number by 1, by 0
  + Eg. 340 x 1 = 340, 250 x 0 = 0
* Find quarters of quantities which are multiples of 4 within 40
  + - Eg. ¼ of 32, ¼ of 40

**A Multiplication square and a 200 square can be used to scaffold learning and provide support for your child. Multiplication games will help reinforce the Tables.**

**Rang 5**

* Count orally in multiples of 3, 4, 5, 6, 7, 8 and 9 forwards and backwards
  + Eg. 7, 14, 21, 28, 35, 42, 49, 56, 63, 70
* Recognise, read, write and order whole numbers within 10 000
  + Eg. 9 458 = 9 míle ceithre chéad caoga a hocht
* Recognise position of digit indicates value including numbers to 1 decimal place
  + Eg. 6 975. 5 = 6000 + 900 + 70 + 5 + 0.5
* Recognise, read, write order decimal numbers to 1 decimal place
  + Eg. 0. 8 = 8/10
* Find doubles of any 2 digit numbers to 50 + 50
  + Eg. Double 36, double 48
* Derive corresponding halves
  + - Eg.( half of 72)
* Add/subtract 2 digit numbers within 100, bridging the 10
  + - Eg. 34 + 28, 53 – 26 ( separate numbers into tens and units ie. 28 = 20 + 8 so subtract the 20 and then the 6 )
* Add two 2 digit multiples of 10 bridging the 100/1000
  + - Eg. 40 + 70 400 + 700
* Add a 2 digit multiple of 10 to a 2 digit number and vice versa bridging through the 100
  + Eg. 78 + 60, 80 + 63
* Add 2 three digit multiples of 10 without bridging 100

Eg. 340 + 420

* Subtract a 2 digit multiple of 10 from a 3 digit multiple of 10 without bridging the hundred
  + - Eg. 670 – 40, 780 – 60, 850 – 20
* Subtract a 3 digit multiple of 10 from a 3 digit multiple of 10 without bridging the 100
  + - Eg. 560 – 440, 870 – 360
* Find difference between two 3 digit numbers which are close
  + - Eg. 678 – 672 ( understand that finding difference can be done by adding on or subtracting – how many more is 78 than 72)
* Multiply a single digit number by 6, 7, 8, 9 and derive revision facts
  + - Eg. 8 X 9 = 72 72 ÷ 8 = 9
* Multiply whole numbers by 10 within 10 000
  + - Eg. 67 x 10 = 670 325 x 10 = 3250
* Multiply whole numbers by 100 within 10 000
  + - 67 x 100 = 6700 325 x 100 = 32500
* Divide whole numbers by 10, whole number answers
  + - 670 ÷ 10 = 67 6700 ÷10 = 670
* Give multiples of and factors of......
  + Eg. Find the factors of 12 = 12, 1, 6, 2, 3, 4
    - Find the multiples of 8 = 8, 16, 24, 32, 40, 48......
* Find equivalent fractions within simple fraction families
  + - Eg. ½ = 2/4, ½ = 5/10 or 4/8 , ¼ = 2/8 or ¼,
* Recognise, read, write and order fractions
  + - Eg. Which is the biggest fraction? 1/3, ½ or 1/8?
* Find fractions of a quantity using unitary fractions where answer is a whole number within known Table facts
  + - Eg.1/8 of 48, 1/6 of 36, 1/3 de 24
* Recognise, read, write and order decimals to 1 decimal place
  + - Eg. Order 0.8, 0.1, 0.7, 0.2, 0.5
* Find 50% by finding ½ of a quantity
* Find 25% by finding ¼ of a quantity
* Find 10 % by finding 1/10 of a quantity
* Approximate numbers to nearest 10, 100, or 1000
  + - Eg. 58-60, 88-100, 7689-8000
* Approximate 1 decimal point numbers to nearest whole number
  + - Eg. 6 . 7- 7, 9 . 1- 9, 8. 8 – 9
* Add/subtract a single digit to/from a 1 decimal place number
  + - Eg. 2.3 + 4, 5 . 6 – 3

Rang 6

* Count, read, write, order numbers to 100,000
* Estimate the total of 2 or 3 items in a shopping list
  + Eg. ( 2. 99 + 4.49 + 1.99)
* Estimate the answers of written or calculator calculations
  + 7852 ÷ 26 ( 8000 ÷ 30)
* Recognise position of digit indicates value, including decimal numbers to 2 decimal places
* Count, read and order decimal numbers to 2 decimal places
* Find fractions of quantities by dividing by denominator, multiplying by numerator
  + - Eg. 2/3 of 15
* Find 20%, 30%, 40%, .............90% of quantities by finding 10% and multiplying appropriately 40 % of 80- find 10% = 8, then multiply by 4
* Find what must be added to a fraction to make the next whole number eg. 3 2/5 + ∆ makes 4
* Add 4 or more single digit numbers
* Add any number to a multiple of 1000 ( 4000 + 423 )
* Subtract a multiple of 1000 from any 4 digit number ( 4567 – 3000 )
* Add any 2 digit numbers including bridging the 10 and 100
  + - Eg. 67 + 77,
* Subtract a 2 digit number from any 3 digit number without bridging the 100 eg. 567 – 40
* Subtract a 3 digit multiple of 10 from a 3 digit multiple of 10 without bridging through the 100 ( 670 – 430 )
* Add two 3 digit numbers which are near doubles of multiples of 50
  + - Eg. ( 348 + 251 )
* Add a 3 digit number to a 3 digit multiple of 10 without bridging through the hundred eg, ( 620 + 337 )
* Add/subtract decimals to 1 decimal place without bridging the unit
  + - Eg. 24.3 + 13.4, 18.8 - 12.6
* Find what must be added to a 1 decimal place number greater than 1 to make the next whole number ( 23.2 + ∆ = 24 )
* Multiply a 2 digit multiple of 10 by a single digit ( 40 x 7 )
* Multiply a 3 digit multiple of 100 by a single digit ( 400 x 7 )
* Multiply a 3 digit number by 100 eg. ( 456 x 100 )
* Multiply two digit multiples of 10 eg. ( 30 X 60 )
* Divide whole numbers by 100, whole number answers ( 4600 ÷ 100 )

**Rang 7**

* Recognise, read, write and order whole numbers to any size
* Understand and use negative numbers in context
  + - Eg. Weather reports
* Use knowledge of inverse operations to aid and check calculations
* Identify prime, square and cube numbers
* Know squares of all numbers to 10
* Know cubes of all numbers to 5, and the cube of 10
  + - Eg. 10 x 10 x 10 4 x 4 x 4
* Read, write, order decimal numbers to 3 decimal places in context
* Convert between simple fractions, percentages and decimals
  + - Eg.40% = 4/10 = 2/5 = 0.4
* Know when to round remainders up and down, depending on context
* Estimate before all written and calculator calculations
* Add two 3 digit multiples of 10, including bridging through 100
  + - Eg. 360 + 470
* Subtract two 3 digit multiples of 10, including bridging through 100
  + - Eg. 420 – 240
* Add a 3 digit number to a 3 digit multiple of 10, including bridging through 100
  + - Eg. 470 + 343
* Subtract a 3 digit multiple of 10 from a 3 digit number, without bridging through 100
  + - Eg. 786 – 560
* Add two 3 digit numbers without bridging through 10 or 100, answers within 1000
  + - Eg. 364 + 522
* Add two 3 digit numbers bridging through 10 but not 100, answers within 1000
  + - Eg. 458 + 235
* Add two 3 digit numbers bridging through 100 but not 10, answers within 1000
  + - Eg. 181 + 433
* Add two 3 digit numbers bridging through both 10 and 100, answers within 1000
  + - Eg. 467 + 388
* Add/subtract fractions including mixed numbers within fraction families
  + - Eg. 4 2/3 + 1 1/3
* Find fractions of quantities ( whole number answers )
  + - Eg. ¾ of 60
* Subtract a 1 decimal point number from a whole number
  + - Eg. 14 – 2.6
* Multiply/ divide any number by 10, 100, 1000 answers to include answers with up to 3 decimal points
  + - * 16. 25 x 100 156.55 ÷ 100 = 1.5655
* Multiply whole numbers by 50, 25
* Multiply any 2 digit number by a single digit
  + - Eg 38 x 7
* Multiply a 2 digit multiple of 10 by a 3 digit multiple of 100
  + - Eg. 400 x 40
* Multiply a 2 digit multiple of 10 by a 4 digit multiple of 1000
  + - Eg. 6000 x 30
* Divide a 2 digit number by a single digit within known table facts, remainder expressed as a fraction
  + - Eg. 77 ÷ 9 = 8 5/9
* Divide any 2 digit number by 2 ( halve ), 4 ( halve and halve again ),
  + or 5 ( divide by 10 and double ) expressing the answer as a fraction or decimal
    - eg. 39 ÷ 2, 57 ÷ 4, 66 ÷ 5
* Multiply any 3 digit multiple of 10 by 2, 4 or 5
  + - 340 x 2, 520 x 4, 170 x 5
* Multiply a 2 digit multiple of 10 by 15
  + - Eg. 40 x 15
* Multiply a 2 digit multiple of 10 by a near 2 digit multiple of 10
  + - Eg. 40 x 39
* Divide a multiple of 100 by a multiple of 10 where result is a whole number
  + - Eg. 600 ÷ 30
* Divide a multiple of 50 by 50
  + - Eg. 450 ÷ 50
* Divide a multiple of 25 by 25
  + - Eg. 625 ÷ 25
* Find % of multiples of 100
  + - Eg. 24 % of 400, 16 % of 25