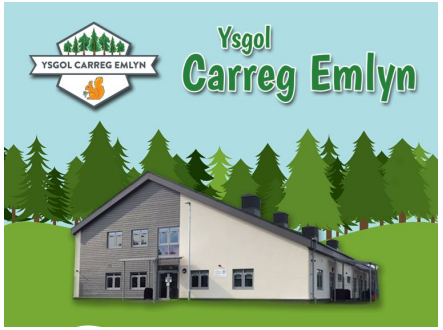
Rhifedd/Numeracy



Cyflwyno sut yr ydym yn dysgu rhifedd.....

An introduction of how we teach numeracy.....

Amserlen dysgu sylfaen/Foundation timetable

Wythnosau	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Hydref	Gwerth lle		Adio		Mesur (hyd/lled/ uchder)		Tynnu		Lluosi		Siap 2d a 3d		Rhannu		Ail ymweld (asesu ar gyfer dysgu)
Gwanwyn	Arian			Casglu data		Lleoliad/ Ardd odiad	Amser			Ffracsiynau			Ail ymweld (asesu ar gyfer dysgu)		
Haf	Mesur (mas a cyfaint)		Datrys Problemau		Gwerth lle		Adio		Tynnu		Lluosi		Rhannu		Ail ymweld (asesu ar gyfer dysgu)

- Cynllun Un, Dau, Tri fel is-dasg ffocws yn canolbwyntio ar sgiliau sylfaenol drwy'r flwyddyn cyfan

Amserlen dysgu sylfaen/Foundation timetable

Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Autumn	Place value		Addition		Measurement (length/width/ height)		Subtraction		Multiply		Shape 2d and 3d		Division		Revisit (Assessment for learning)
Spring	Money			Data		Positioning	Time			Fractions			Revisit (Assessment for learning)		
Summer	Measure(capacity)		Problem Solving		Place Value		Addition		Subtraction		Multiply		Division		Revisit (Assessment for learning)

- Cynllun Un, Dau, Tri used to reinforce basic skills throughout the year.

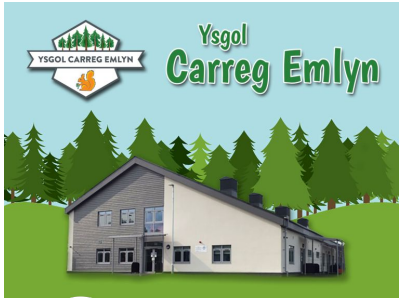
Amserlen yr adran iau/Older learners timetable

Wythnosau	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Hydref	Rhif: Adio, Tynnu, Lluosi, Rhannu					Gwerth lle/ Talgrynnu		Mesur (Hyd, Pwysau, Cyfaint)			Siap 2d, 3d priodweddau, perimedr, arwynebedd			Ailymweld (asesu ar gyfer y dysgu)	
Gwanwyn	Arian			Data; Hel data, dadansoddi data			Amser; darllen cloc, clociau analog a digidol, amserlenni				Ffracsiynau; ffracsiwn o rif/siap, canrannau, degolion			Ailymweld (asesu ar gyfer y dysgu)	
Haf	Safle; Cyfeiriannu, onglau		Ffocws rhesymu		Profion Cenedlaethol	Ail ymweld (asesu ar gyfer y dysgu), unrhyw beth mae'r athro/athrawes yn meddwl sydd angen sylw ychwanegol.									

Amserlen yr adran iau/Older learners timetable

Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Autumn	Number: Addition, Subtraction, Multiplication, Division					Place value/ rounding up		Measure (Length, Weight, Capacity)			Shape 2d, 3d properties, perimeter, area			Revisit (assessments for learning)	
Spring	Money			Data; Collect data, analyse data		Time; reading clocks, analog and digital clocks, timetables					Fractions; fractions of number/shape. Percentages and decimals			Revisit (assessments for learning)	
Summer	Position; Orientation, angles		Reasoning		National Tests	Revisit (assessments for learning) anything that needs going over again.									

Camau dysgu/Learning steps



- Cyflwyno'r sgil / Introduce the skill

- Ymarfer y sgil / Practise the skill

- Ymresymu / Reasoning

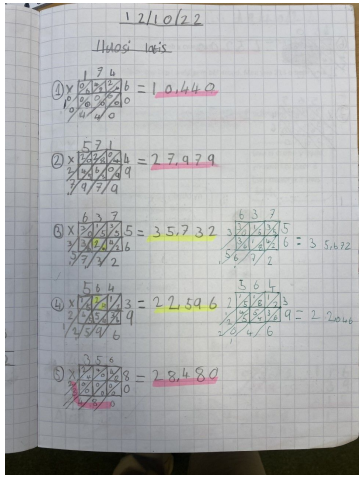
- Atgyfnerthu'r sgil ar draws y meysydd dysgu eraill / Reinforce the skill across the other areas of learning

Cyflwyno

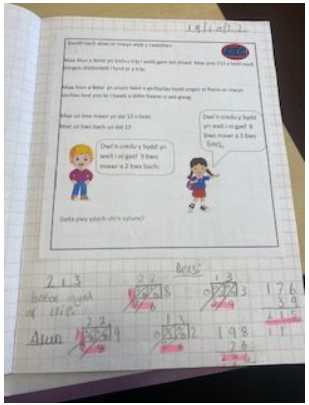
Cyflwyno'r sgil i'r dysgwyr. Darganfod gwybodaeth blaenorol. Gall hwn fod ar lafar, bwrdd gwyn, grwpiau bach.

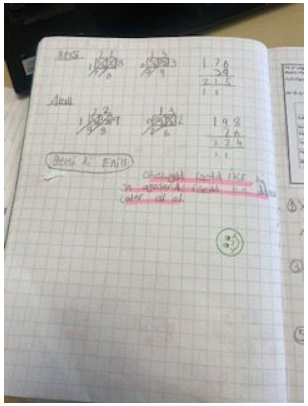
Ymarfer

Rhoi cyfle i blant ymarfer a meistroli'r sgil. Gall hwn fod yn y llyfr, drwy chwarae gem a.y.y.b



Ymresymu

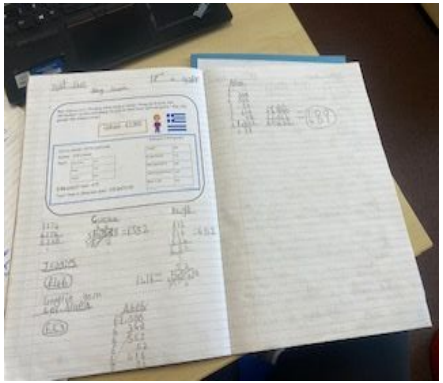




Rhoi problem neu cwestiwn iddynt. Defnyddio'r sgil i ddatrys y broblem.

Trawsgwricwlaidd

Cysylltu'r sgil gyda maes dysgu arall. Atgyfnerthu'r sgiliau mewn sefyllfa bywyd go iawn.

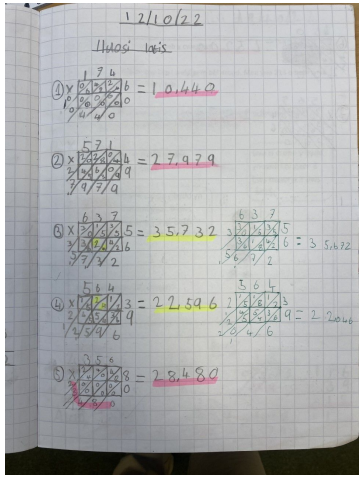


Introduce

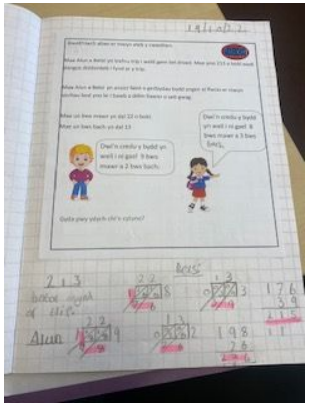
Introduce the skill to the learner. Establish prior knowledge. This can be verbally, white boards or small groups.

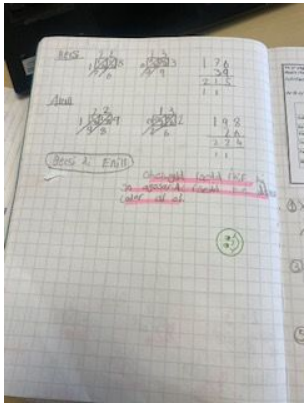
Practise

Chance to practise and master the skill. This can be in theri workbooks, playing games etc.



Reasoning

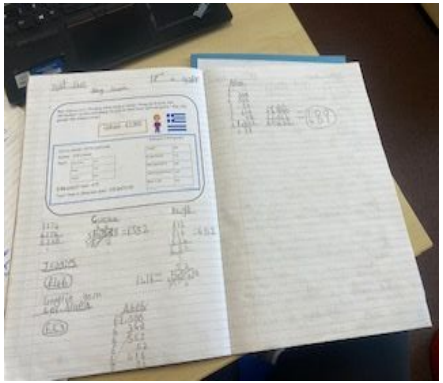




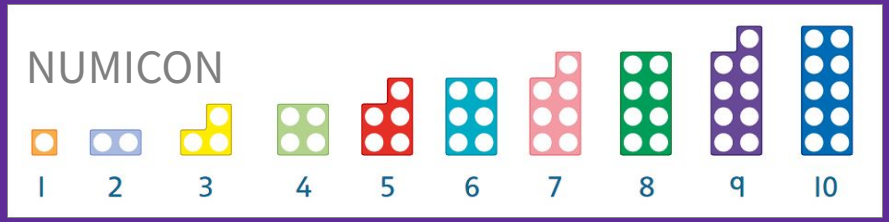
Use their skill knowledge to solve a problem or answer a question.

Cross-curricular

Connect the skill with another learning area. Reinforce in a real life situation.

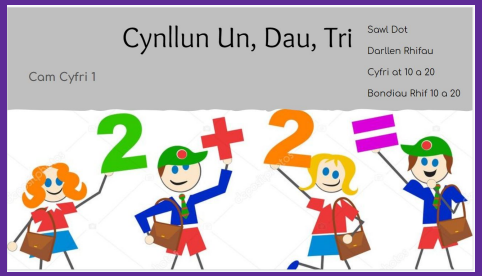


Darpariaeth ac Adnoddau/ Resources and Provision



SGWARIAU CANT

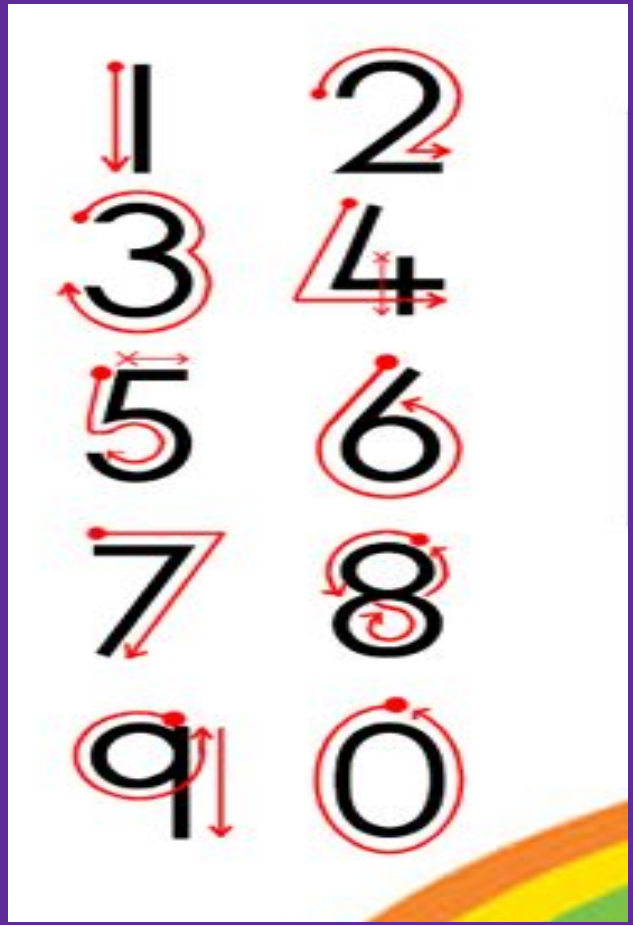
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



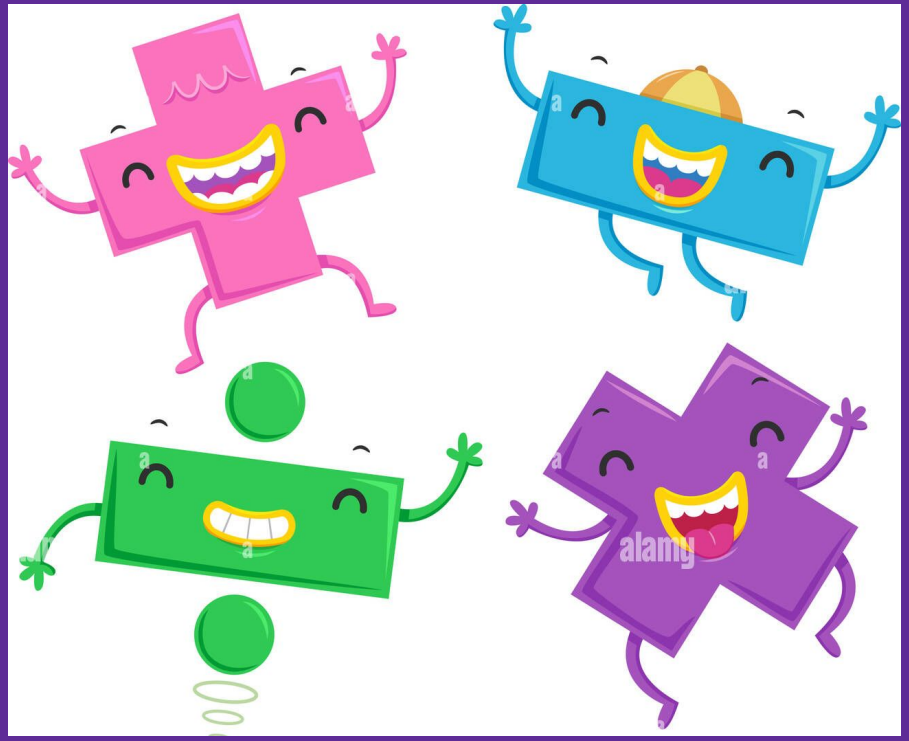
Ffurfio rhifau/ Number Formation

Holl bwysig cael cysondeb wrth ffurfio rhifau. Wrth gychwyn ffurfio rhifau yn y Meithrin a'r Derbyn rydym yn defnyddio'r drefn hyn gan gychwyn ar y smotyn bob amser.

It's important to have a consistent approach to number formation. In the Nursery and Reception when we start learning how to form numbers we follow this formation, always starting on the red spot.



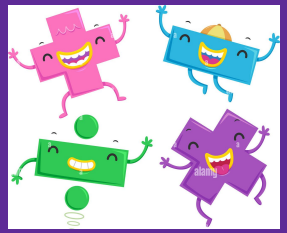
Y 4 rheol / The 4 rules



Elfennau cychwynol ar y daith rhifedd yw'r pedwar rheol.

The 4 rules are the starting points in the journey to learning numeracy.

Ein geirfa / Our language



Un yn fwy

one more

Un yn llai

one less

adio

add

tynnu

subtract

rhannu

divide

o'r gloch

o' clock

lluosi

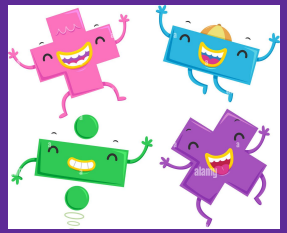
multiply

Yn hafal i

equals to

Meithrin, Derbyn a Blwyddyn 1

Ein geirfa / Our language



un yn fwy

one more

adio

add

un yn llai

one less

tynnu

subtract

rhannu

divide

o'r gloch

o' clock

yn fwy na/llai na

More than/less than

dwbl

double

lluosi

multiply

cyfanswm

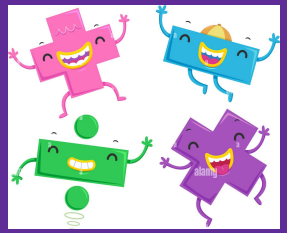
amount

yn hafal i/yn gwneud

equals to

Blwyddyn 2 a 3

Ein geirfa / Our language



gwahaniaeth

difference

adio

add

cyfartaledd

average

rhannu

divide

tynnu

subtract

amrediad

range

yn fwy na/llai na

More than/less than

canolrif

median

lluosi

multiply

cyfanswm

amount

wedi sgwario

squared

yn hafal i/yn gwneud

equals to

talgrynwch

round up

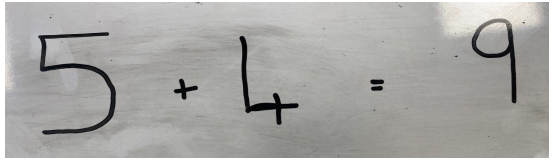
Blwyddyn 4,5 a 6

Adio/Add

Sut mae dysgu ‘adio’ yn edrych yn ein dosbarthiadau.

How does our teaching of ‘addition’ look in our classrooms.

1 digid + 1 digid

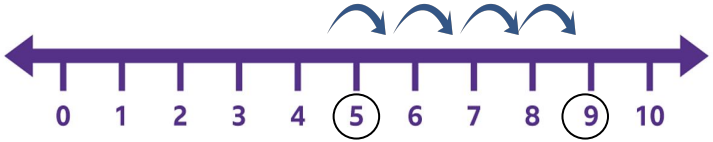


"Pump adio pedwar yn hafal i naw"

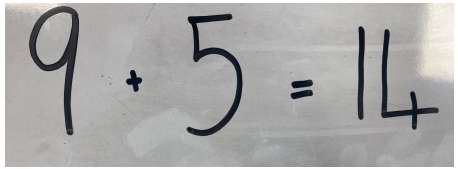
Sgwar 100
Cyfrif ymlaen

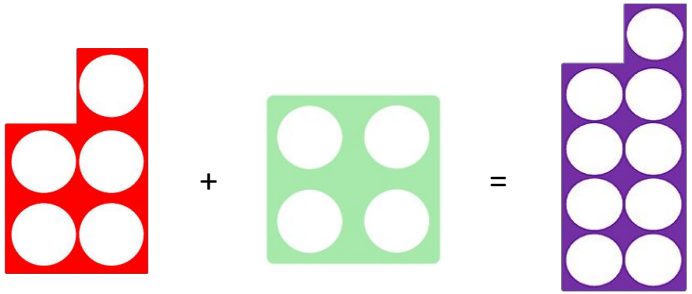
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Cyfrif y nifer cywir o wrthrychau.
Adio'r gwrthrychau at ei gilydd.



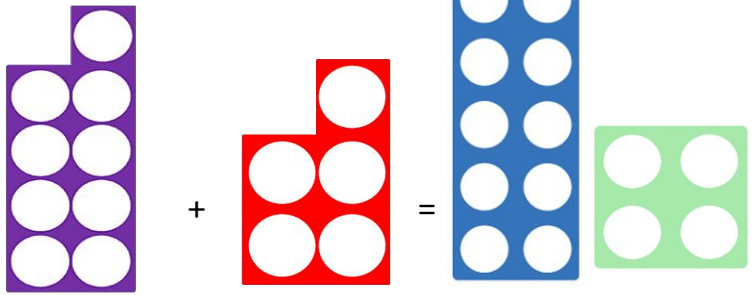
Llinell rif - cyfrif ymlaen





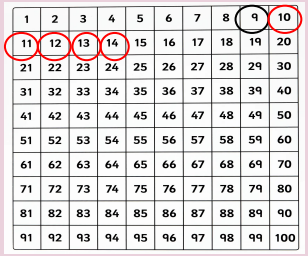
Datblygiad

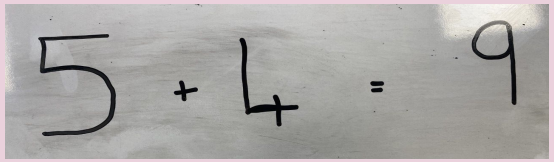
Dewis y numicon cywir, adio'r ddau numicon i ddod o hyd i'r ateb.



1 digit + 1 digit

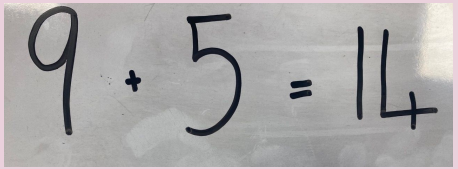
100 square
Count forward

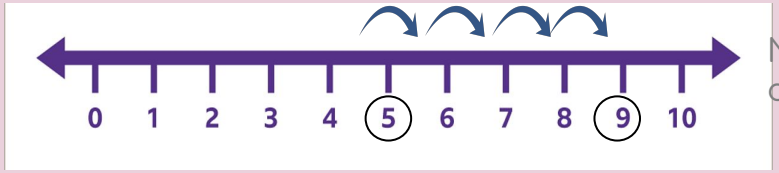




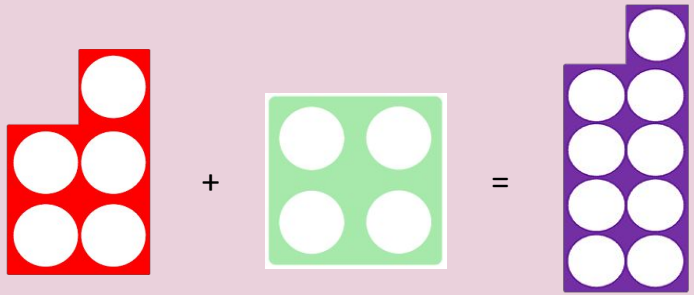
"Five add 4 equals to 9"

Count the objects
Add them
together



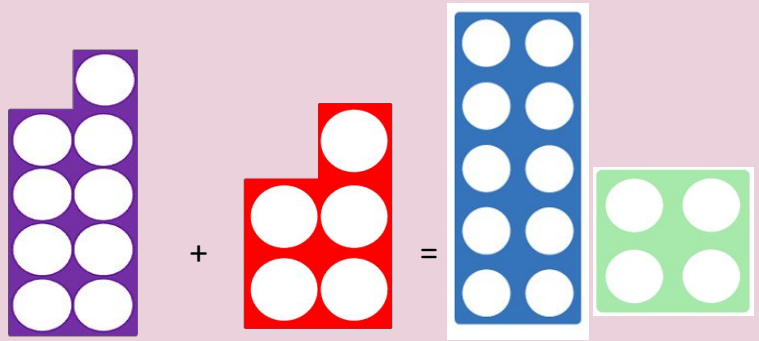


Number line -
count forwards

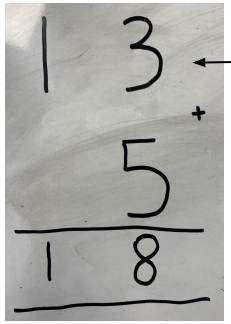


Progression

Choose correct
numicon plates,
add together



2 digid + 1 digid



Dechrau o'r dde

Adio ar i'w lawr

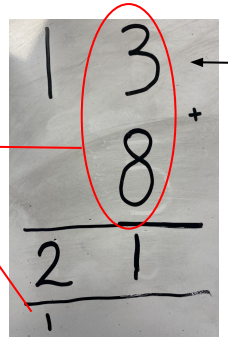
Ateb rhwng y llinellau

Symud i'r chwith

Datblygiad

Os yw'r 2 rhif yn adio i wneud mwy nag 10 mae'r degau yn mynd o dan y degau yn symud i'r chwith

Adio y degau i'r rhifau sydd yn y golofn yno

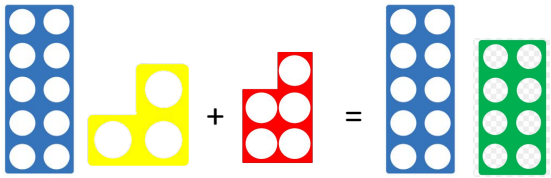


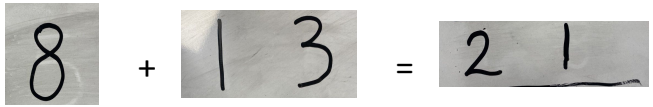
Dechrau o'r dde

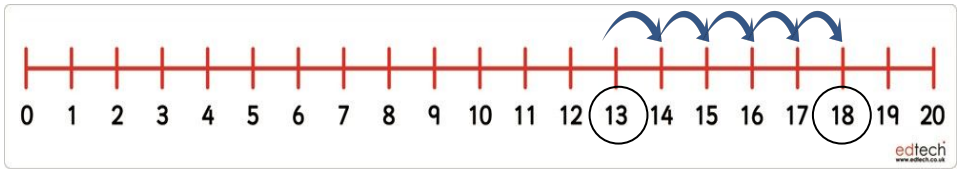
Adio ar i'w lawr

Ateb rhwng y llinellau

Symud i'r chwith





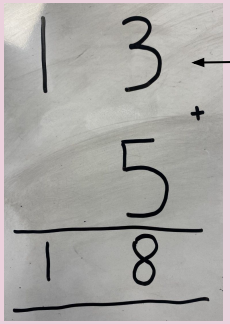


Adio'r degau

Cyfrif ymlaen (adio'r unedau)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

2 digit + 1 digit



Start on right

Add downwards

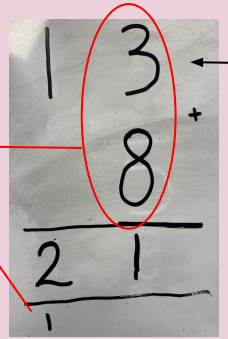
Answer between lines

Move to left

Progression

If 2 numbers add to more than 10 the tens go below the tens moving to the left.

Add the tens to the numbers in that column

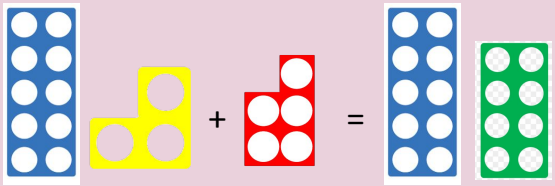


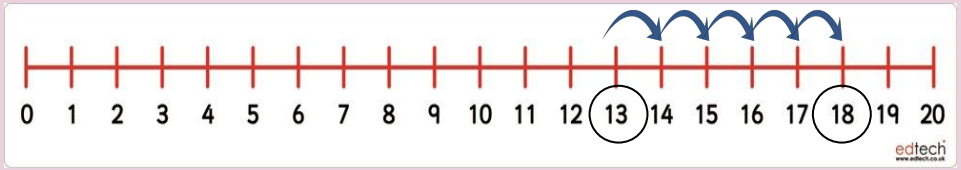
Start on right

Add downwards

Answer between lines

Move to left



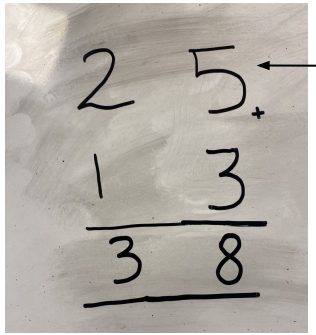


Add tens

Count forwards (add units)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

2 digid + 2 digid



Dechrau o'r dde

Adio ar i lawr

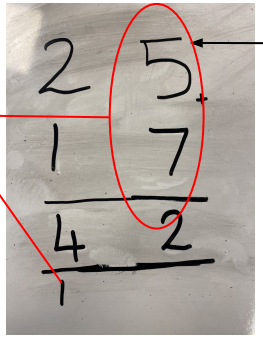
Ateb rhwng y llinellau

Symud i'r chwith

Datblygiad

Os yw'r 2 rif yn adio i wneud mwy na 10 mae'r unedau yn mynd o danodd a'r degau yn symud i'r chwith

Adio y degau i'r rhifau sydd yn y golofn yno



Dechrau o'r dde

Adio ar i'w lawr

Ateb rhwng y llinellau

Symud i'r chwith

Adio'r degau

Cyfrif ymlaen (adio'r unedau)

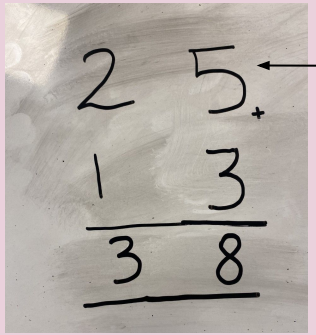
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Adio'r degau

Cyfrif ymlaen (adio'r unedau)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

2 digit + 2 digit



Start on right

Add downwards

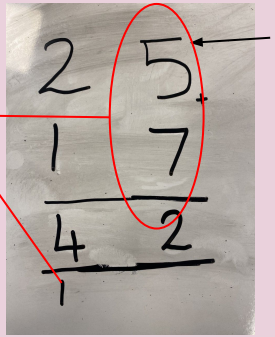
Answer between lines

Move to left

Progression

If the 2 numbers add to more than 10 the units go under and the tens move to the left.

Add the tens to the numbers in that column



Start on right

Add downwards

Answer between lines

Move to left

Add tens

Count forwards (add the units)

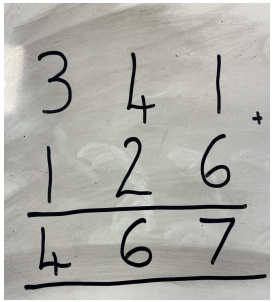
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Add tens

Count forwards (add the units)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

3 digid + 3 digid



Dechrau o'r dde

Adio ar i lawr

Ateb rhwng y llinellau

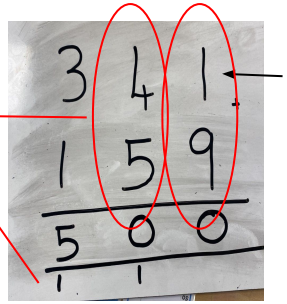
Symud i'r chwith

Datblygiad

Os yw'r 2 rhif yn adio i wneud mwy nag 10 mae'r unedau yn mynd o danodd a'r degau yn symud i'r chwith

Adio y degau i'r rhifau sydd yn y colofn yno

Parhau i wneud hyn
Os mae'r colofn nesaf hefyd yn fwy nag 10



Dechrau o'r dde

Adio ar i lawr

Ateb rhwng y llinellau

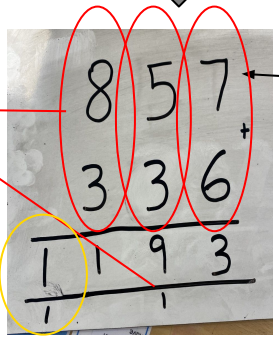
Symud i'r chwith

Datblygiad

Adio'r degau i'r rhifau sydd yn y colofn yno

Parhau i wneud hyn
Os mae'r colofn nesaf hefyd yn fwy nag 10

Os nad oes rhif arall yn y golofn gwthiwch y rhif o dan i fyny



Dechrau o'r dde

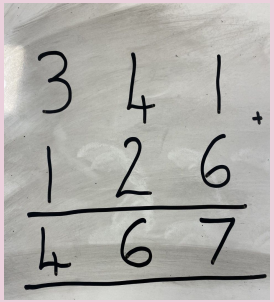
Adio ar i'w lawr

Ateb rhwng y llinellau

Symud i'r chwith

Os ydych yn adio rhifau gyda fwy o ddigidau, dilynwch union yr un camau sydd wedi cael eu amlinellu

3 digit + 3 digit



Start on right

Add downwards

Answer between lines

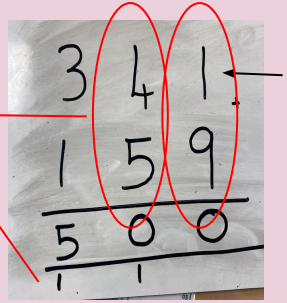
Move to left

Progression

If the 2 numbers add to more than 10 the units go under and tens move to the left.

Add the tens to the numbers in that column.

Continue to do this if the next column is also adding to more than 10



Start on right

Add downwards

Answer between lines

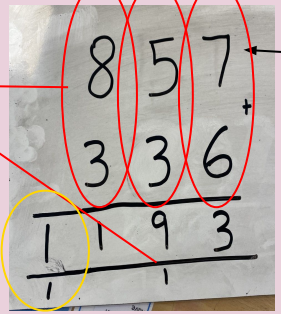
Move to left

Progression

Add the tens to the numbers in that column

Continue to do this if the next column is also more than 10

Ir there is no other number in the column push the number underneath upwards.



Start on right

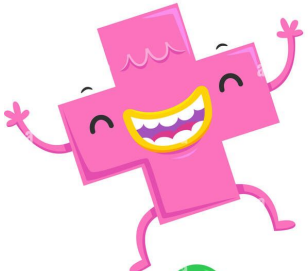
Add downwards

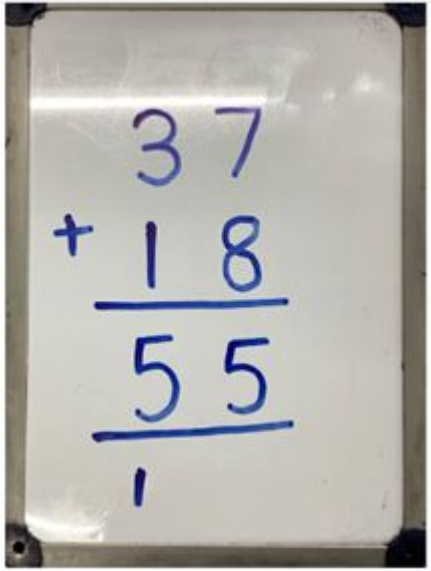
Answer between lines

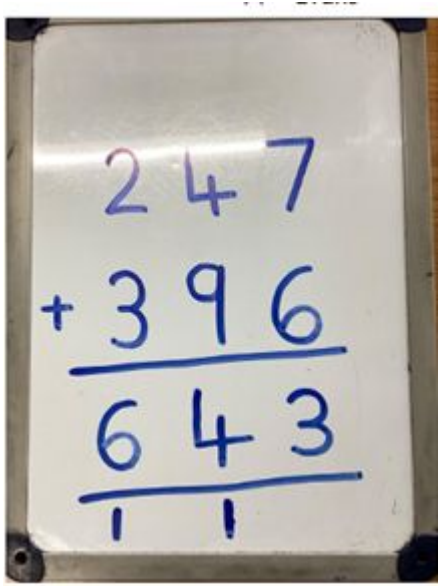
Move to left

If you are adding numbers with more digits, follow the exact same steps.

Esiamplau Adio/Adding Examples



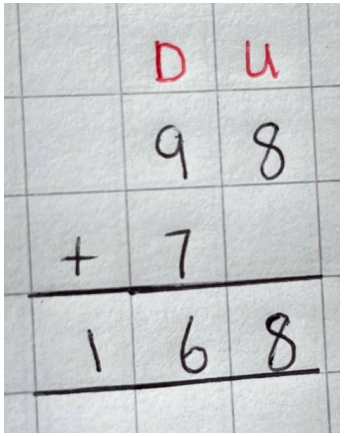


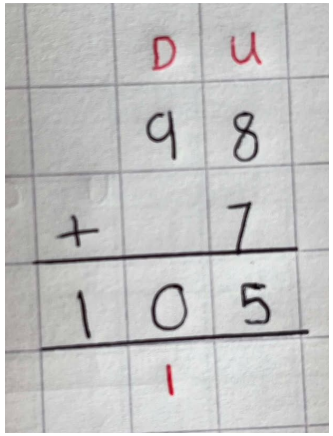


Adio gydag unedau amrywiol

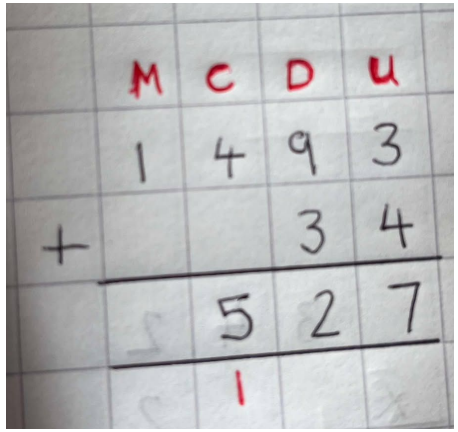
Wrth adio rhifau sydd â gwahanol unedau, mae'n bwysig ein bod yn eu gosod o fewn y colofnau unedau cywir. Fel arall, gall yr uned 7 gael ei adio fel 70 ar ddamwain fel y gweler isod.

98 + 7 =





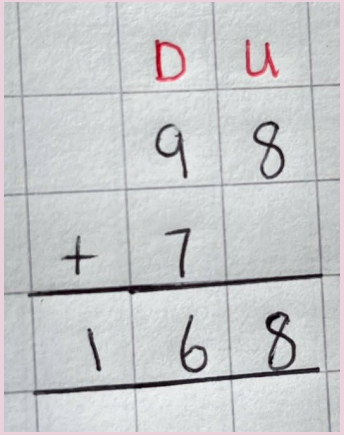
Datblygiad

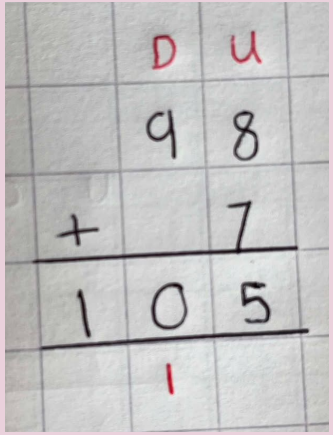


Adding with various units

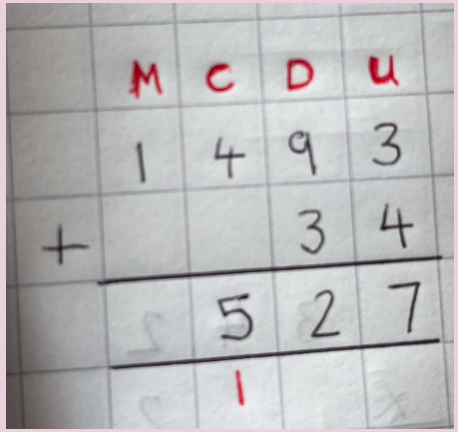
When adding with numbers with different units, it's important that we place them in the correct columns. Otherwise the unit 7 could be added as 70 by mistake as shown below.

98 + 7 =

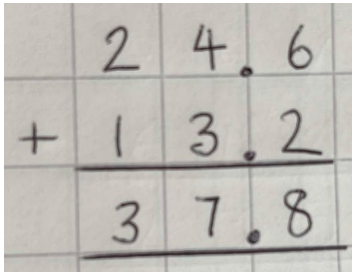




Progression



Adio gyda phwynt degol



Dechrau o'r dde

Adio ar i lawr

Ateb rhwng y llinellau

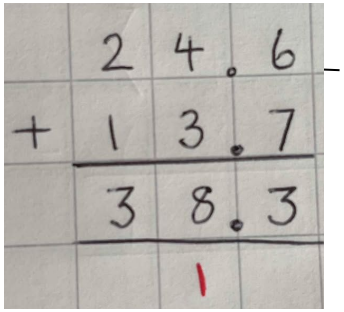
Symud i'r chwith

Datblygiad

Os yw'r 2 rhif yn adio i wneud mwy nag 10 mae'r unedau yn mynd o danodd a'r degau yn symud i'r golofn nesaf (o dan y linell)

Adio y degau i'r rhifau sydd yn y colofn yno

Parhau i wneud hyn Os mae'r colofn nesaf hefyd yn fwy nag 10



Dechrau o'r dde

Adio ar i lawr

Ateb rhwng y llinellau

Symud i'r chwith

Datblygiad

Gosod yr unedau cywir o dan ei gilydd

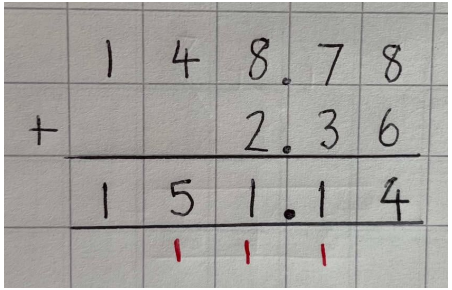
Dechrau o'r dde

Adio ar i lawr

Ateb rhwng y llinellau

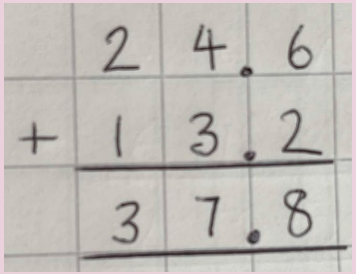
Gosod y pwynt degol yn union o dan y gweddill yn y bwlch ateb

Symud i'r chwith



Os ydych yn adio rhifau gyda fwy o ddigidau, dilynwch union yr un camau sydd wedi cael eu amlinellu.

Adding with a decimal point



Start on right

Add downwards

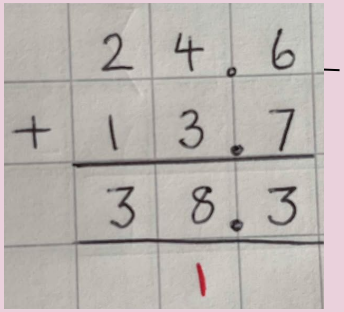
Answer between lines

Move to left

Progression

If the two numbers add to make more than 10 the units then go underneath and the tens move to the next column (under the line). Add the tens to the numbers in that column.

Continue to do this if the next column is also more than 10.



Start on right

Add downwards

Answer between lines

Move to left

Progression

Place the correct units under each other.

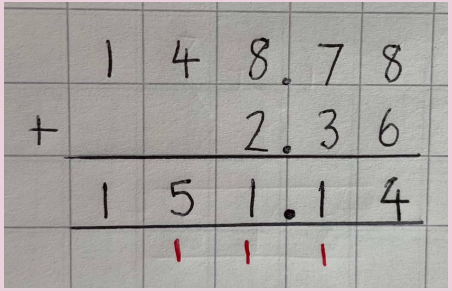
Start on right

Add downwards

Answer between lines

Place the decimal point underneath in between the lines.

Move to left



If you are adding numbers with more units, follow the exact same steps.

Tynnu/Subtracting

Sut mae dysgu ‘tynnu’ yn edrych yn ein dosbarthiadau.

How does our teaching of ‘subtraction’ look in our classrooms.

1 digid - 1 digid

"Naw tynnu pedwar yn hafal i 5"

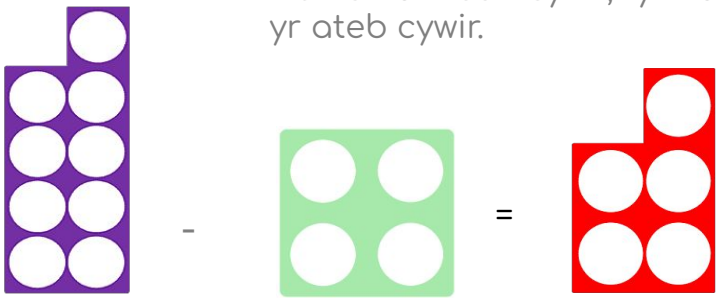
9 - 4 = 5

Cyfrif 9 gwrthrych, gofyn i'r plentyn tynnu 4.
Cyfrif faint o wrthrychau sydd ar ol.

Neidio yn ol un rhif ar y tro

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

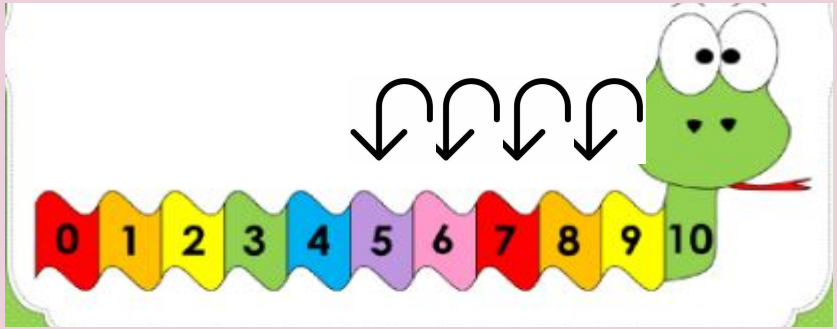
Dewis numicon cywir, tynnu un o'r llall i gael yr ateb cywir.



1 digit - 1 digit

"Nine take away four equals to five"

$$9 - 4 = 5$$

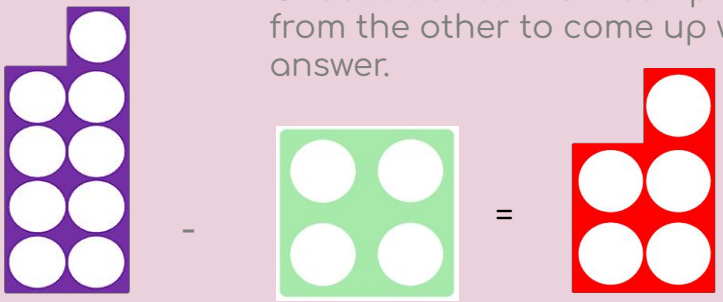


Count 9 objects, take away 4 and count how many are left.

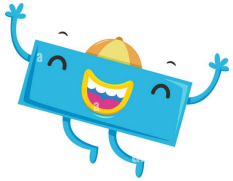
Jump backwards one at a time

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Choose correct numicon plates, take one from the other to come up with the correct answer.



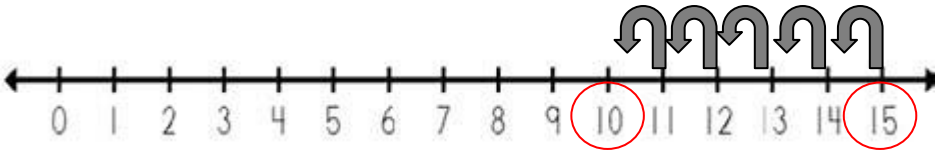
2 digid - 1 digid



"Un deg pump tynnu pump yn hafal i ddeg"

15 - 5 = 10

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



15 yn y pen a cyfri nôl 5

Llinell rif / Sgwar 100
Cyfrif yn ol un rhif ar y tro

2 digit - 1 digit

"Fifteen minus five equals ten"

15 - 5 = 10

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

15 in your head and count back 5

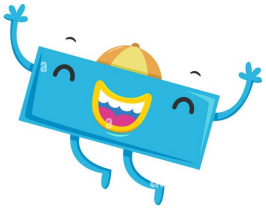
Number line/Hundred sauare
Count back one number at a time

Tynnu Gyda Sgwar 100 a/neu yn eich pen

Ffeindio'r rhif cyntaf.

Tynnu'r degau gyntaf.

Cyfri nôl yr unedau un ar y tro.



87 - 21 = 87 yn eich pen, tynnu degau gyntaf 87-20 =67 yna tynnu'r unedau 67-1 =66

Tynnu Gyda Sgwar 100 or/and in your head

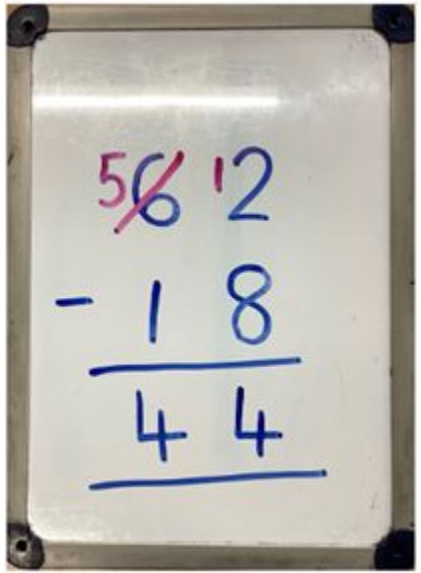
Find the first number.

Take away the tens first.

Count back the units.

87 - 21 = 87 in your head, take away the tens first 87 - 20 =67
then take away the units 67 - 1 =66

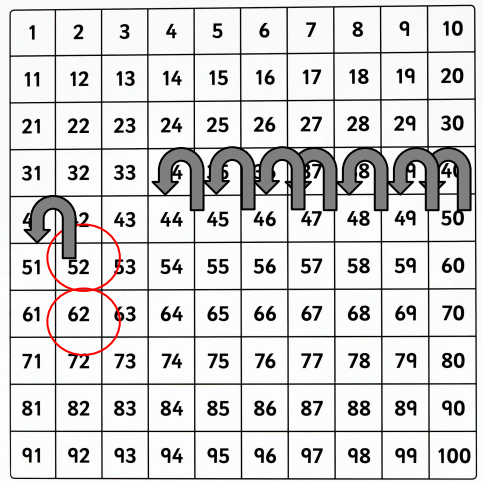
2 digid - 2 digid



Cychwyn ar y dde.

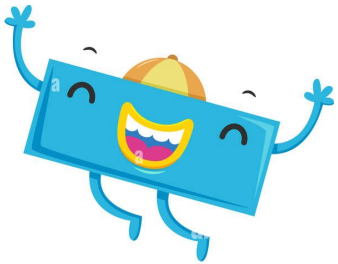
Os yw'r uned yn llai ar y top nac ar y gwaelod, benthyg 'deg' o'r degau.

Dangos hyn fel yn y diagram.

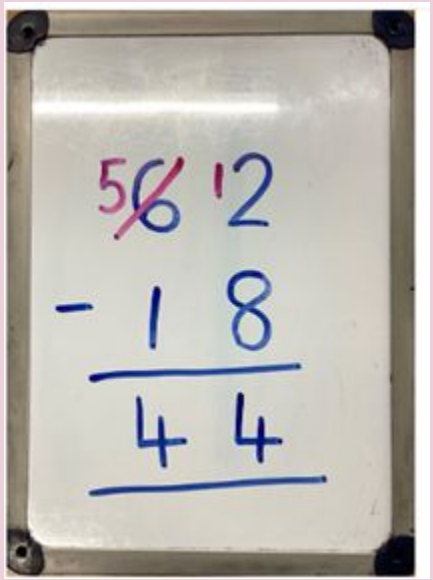


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Neu defnyddio sgwar cant. Tynnu degau gyntaf yna yr unedau.



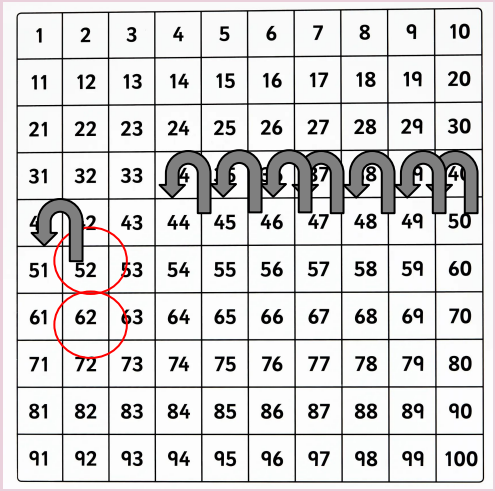
2 digit - 2 digit



Start on the right..

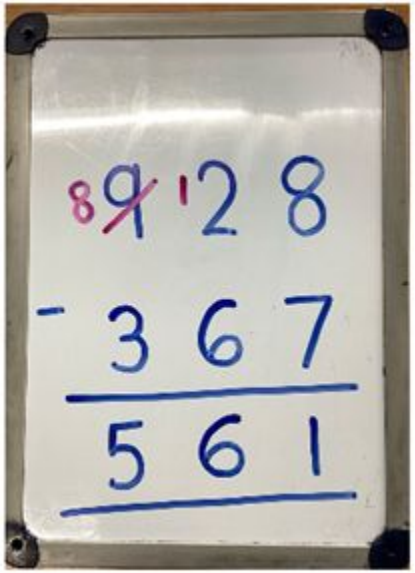
If the unit is less on top than the bottom. 'Borrow' from the tens.

Show this as the diagram shows.



Or use a hundred square. Take away the tens first then the units.

3 digid - 2 digid

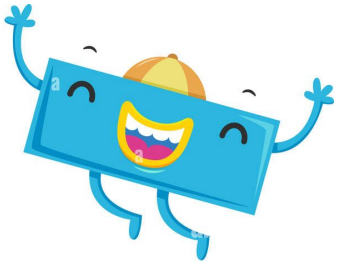


Cychwyn ar y dde.

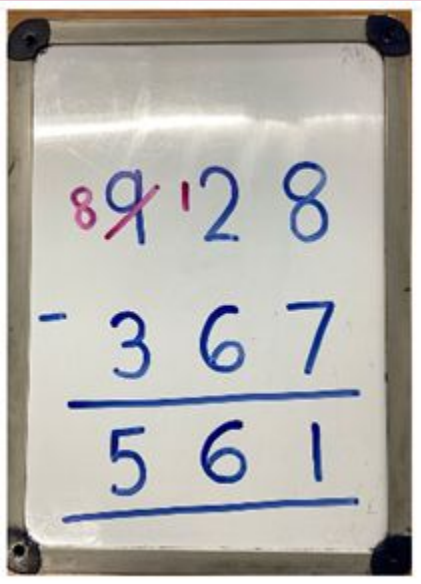
Os yw'r uned yn llai ar y top nac ar y gwaelod, benthyg 'deg' o'r degau.

Ceir wneud hyn mwy nag unwaith.

Dangos hyn fel yn y diagram.



3 digid - 2 digid



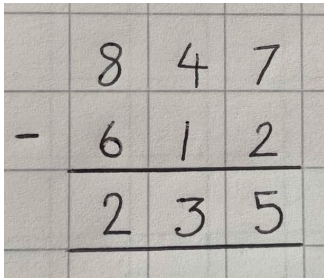
Start on the right..

If the unit is less on top than the bottom. ‘Borrow’ from the tens.

You can do this more than once.

Show this as the diagram shows.

3 digid - 3 digid



Sicrhau fod y rhif mwyaf ar y linell uchaf

Dechrau o'r dde

Tynnu'r rhif gwylod i ffwrdd o'r rhif top

Ateb rhwng y llinellau

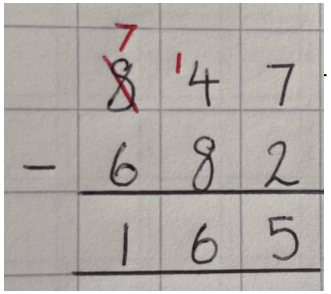
Symud i'r chwith

Datblygiad

Os yw'r rhif top yn llai na'r rhif ar y gwylod; bydd angen 'menthyg' gan y rhif drws nesaf i'r chwith..

Felly bydd y rhif 'drws nesaf' yn newid i fod un digid yn llai.

Yna, bydd y rhif sydd wedi'w 'fenthyg' yn gweithredu fel 'deg' ar gyfer y rhif sydd ei angen.



Rhif mwyaf ar y linell uchaf

Dechrau o'r dde

Tynnu'r rhif gwylod i ffwrdd o'r rhif uchaf

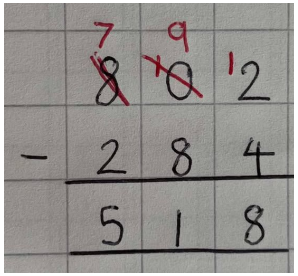
Ateb rhwng y llinellau

Symud i'r chwith

Datblygiad

Os mae llawer o'r rhifau uchaf yn llai na'r gwylod, bydd rhaid 'menthyg' gan y digidau ar y chwith tan y cawn lwyddiant.

Mae pob 'menthyciad' yn dilyn yr un broses.



Rhif mwyaf ar y linell uchaf

Dechrau o'r dde

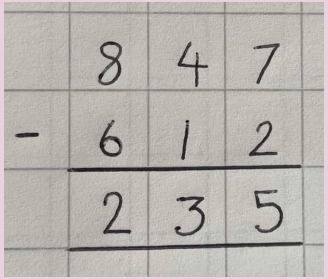
Tynnu'r rhif gwylod i ffwrdd o'r rhif uchaf

Ateb rhwng y llinellau

Symud i'r chwith

Os ydych yn tynnu rhifau gyda fwy o ddigidau, dilynwch union yr un camau sydd wedi cael eu amlinellu

3 digit - 3 digit



Ensure the highest number is on the highest line.

Start on the right.

Take away the bottom number away from the top.

Answer between the lines.

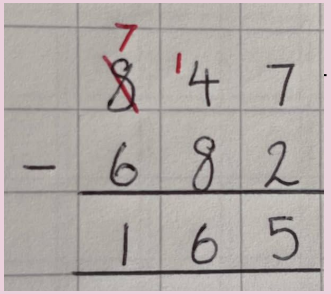
Move to the left.

Progression

If the number on top is less than the number on the bottom you will need to borrow from the number next to it on the left.

So the number next door will change to be one less.

Then the number 'borrowed' will act like a ten for the number that needs it.



Ensure the highest number is on the highest line.

Start on the right.

Take away the bottom number away from the top.

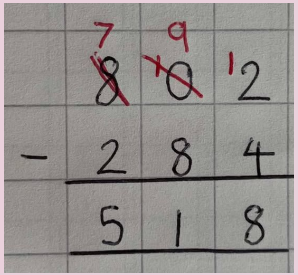
Answer between the lines.

Move to the left

Progression

If many of the top numbers are less than the bottom numbers you will need to 'borrow' from the digits on the left until it works out.

Every 'borrowing' follows the same process.



Ensure the highest number is on the highest line.

Start on the right.

Take away the bottom number away from the top.

Answer between the lines.

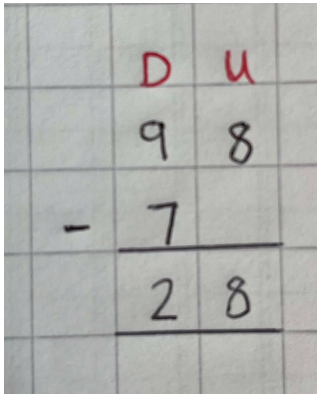
Move to the left

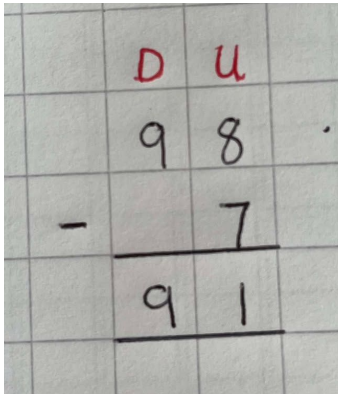
If you are taking away numbers with more digits, follow the exact same steps outlined.

Tynnu gydag unedau amrywiol

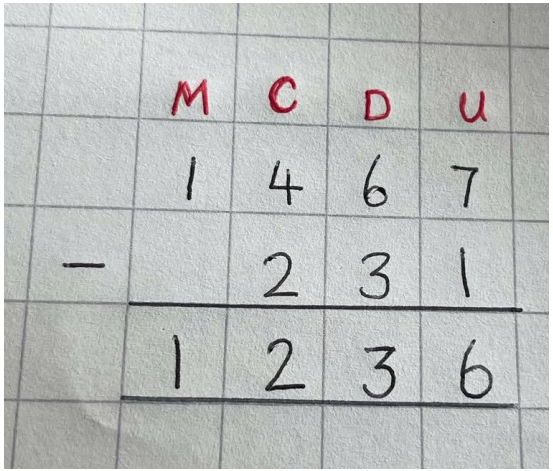
Wrth dynnu rhifau sydd â gwahanol unedau, mae'n bwysig ein bod yn eu gosod o fewn y colofnau unedau cywir. Fel arall, gall yr uned 7 gael ei adio fel 70 ar ddamwain fel y gweler isod.

98 - 7 =





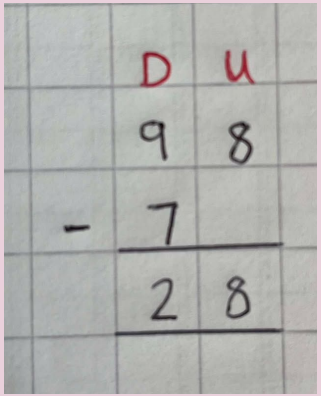
Datblygiad

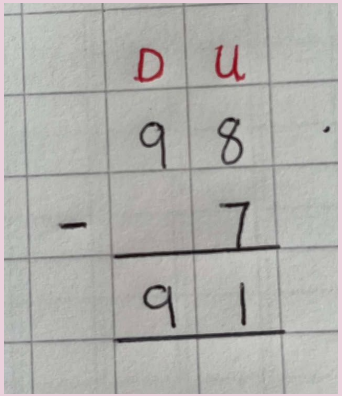


Subtraction with various units

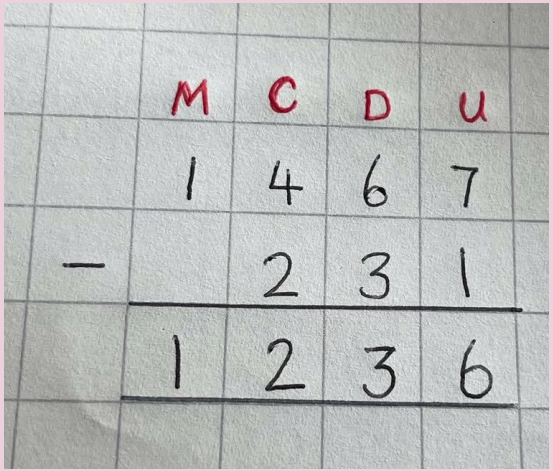
By subtracting numbers with different units, it's important that we place them in the correct columns. Otherwise the unit 7 could be added as 70 incorrectly as shown below.

98 - 7 =

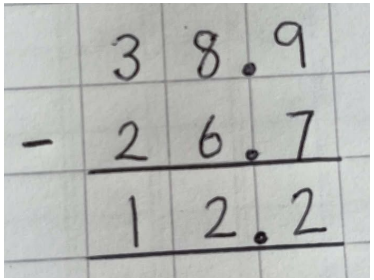




Datblygiad



Tynnu gyda phwynt degol



Sicrhau fod y rhif mwyaf ar y linell uchaf

Dechrau o'r dde

Tynnu'r rhif gwylod i ffwrdd o'r rhif uchaf

Ateb rhwng y llinellau

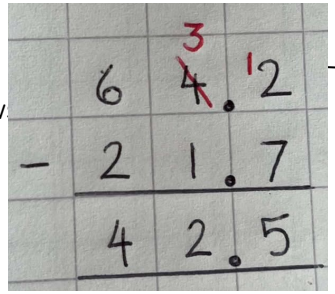
Symud i'r chwith

Datblygiad

Os yw'r rhif ar y linell uchaf yn llai na'r rhif ar y gwylod; bydd angen 'menthyg' gan y rhif drw nesaf i'r chwith..

Felly bydd y rhif 'drws nesaf' yn newid i fod un digid yn llai.

Yna, bydd y rhif sydd wedi'w 'fenthyg' yn gweithredu fel 'deg' ar gyfer y rhif sydd ei angen.



Rhif mwyaf ar y linell uchaf

Dechrau o'r dde

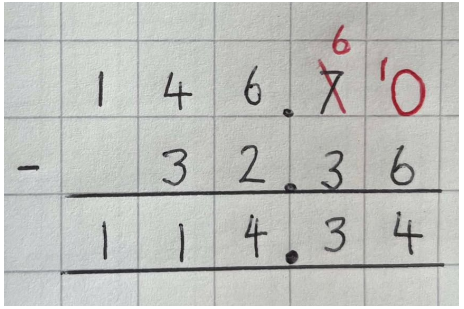
Tynnu'r rhif gwylod i ffwrdd o'r rhif uchaf

Ateb rhwng y llinellau

Symud i'r chwith

Datblygiad

Os nad oes unedau hafal, ychwanegwch sero i'r bylchau.



Rhif mwyaf ar y linell uchaf

Dechrau o'r dde

Ychwanegu sero i unrhyw fylchau

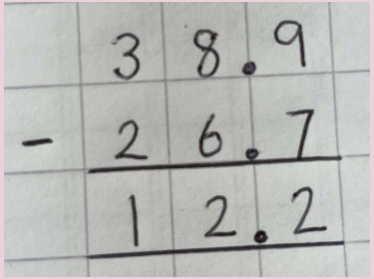
Tynnu'r rhif gwylod i ffwrdd o'r rhif uchaf

Ateb rhwng y llinellau

Gosod y pwynt degol o fewn yr ateb

Os ydych yn tynnu rhifau gyda fwy o ddigidau, dilynwch union yr un camau sydd wedi cael eu amlinellu

Subtracting with a decimal point



Ensure the highest number is on the highest line.

Start on the right.

Take away the bottom number away from the top.

Answer between the lines.

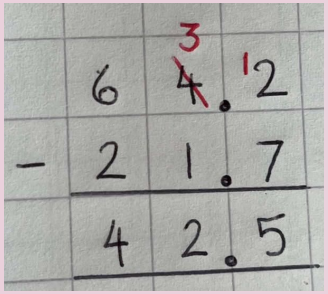
Move to the left

Progression

If the number of the top line is less than the number on the bottom you will need to 'borrow' from the number on the left.

So the number 'next door' will change to be one less.

Then the number borrowed will act as 'ten' for the number required.



Ensure the highest number is on the highest line.

Start on the right.

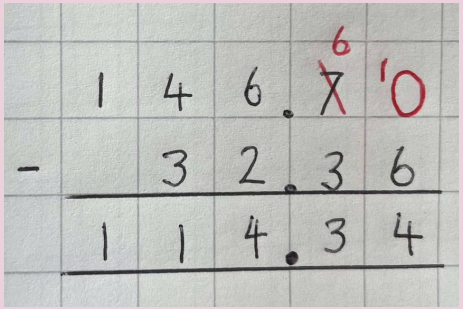
Take away the bottom number away from the top.

Answer between the lines.

Move to the left

Progression

If the units are not equal add a zero to the box.



Ensure the highest number is on the highest line.

Start on the right.

Take away the bottom number away from the top.

Answer between the lines.

Move to the left

If you take away numbers will more digits follow the exact same steps outlined.

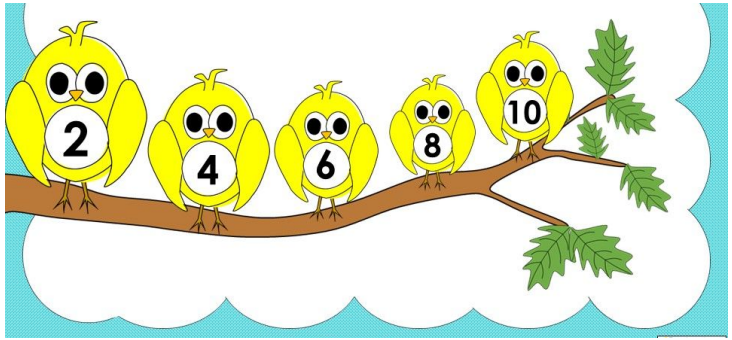
Lluosi/Multiply

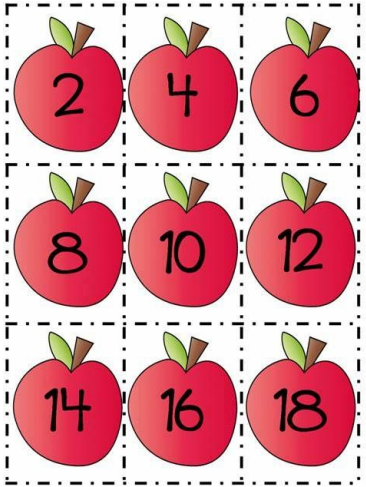
Sut mae dysgu ‘lluosi’ yn edrych yn ein dosbarthiadau.

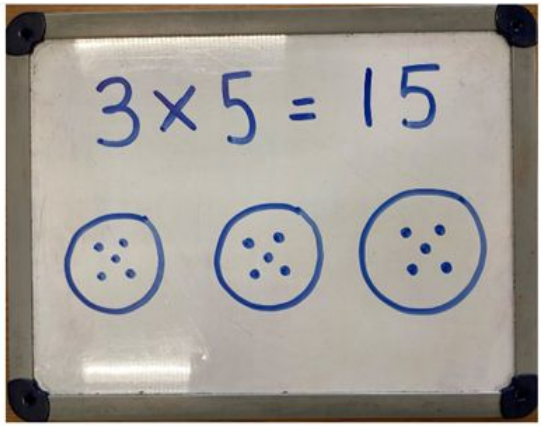
How does our teaching of ‘multiplication’ look in our classrooms.

1 digid x 1 digid

Sgiliau lluosi cynnar
- cyfri fesul 2, 5 a 10

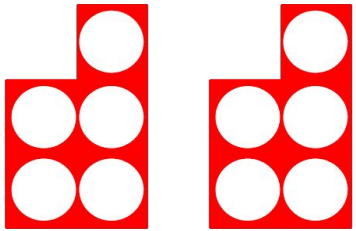




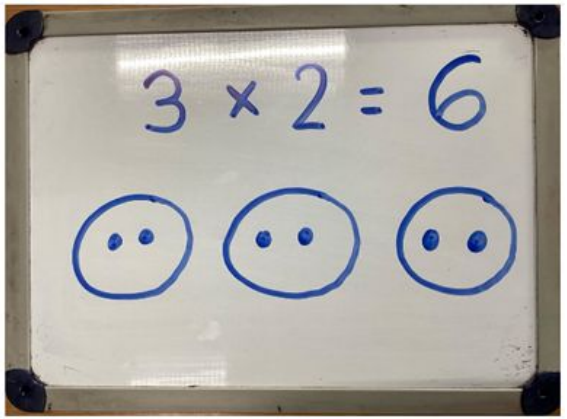


Defnyddio platiau numicon

2 x 5 = 10

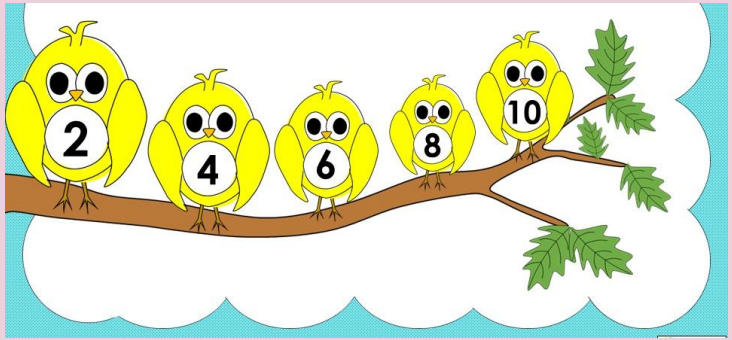


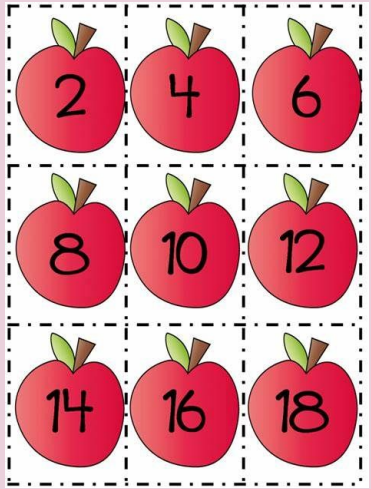
Defnyddio cylchoedd a smotiau yna eu cyfri i gael y cyfanswm.

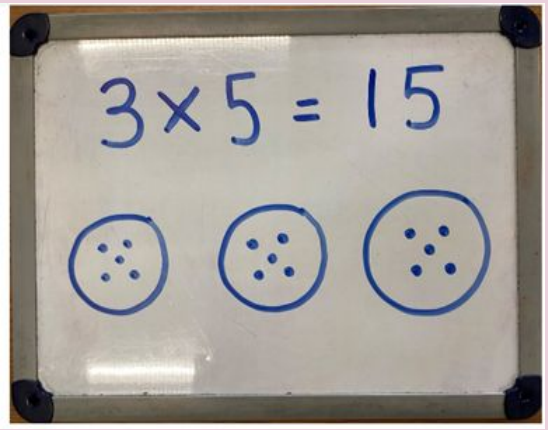


1 digit x 1 digit

Early multiplication skills - count in 2's, 5's and 10's, then arrange numbers in 2's, 5's and 10's

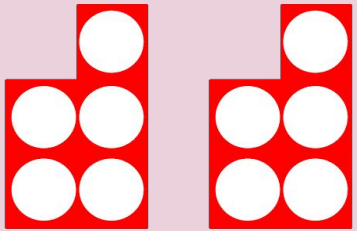




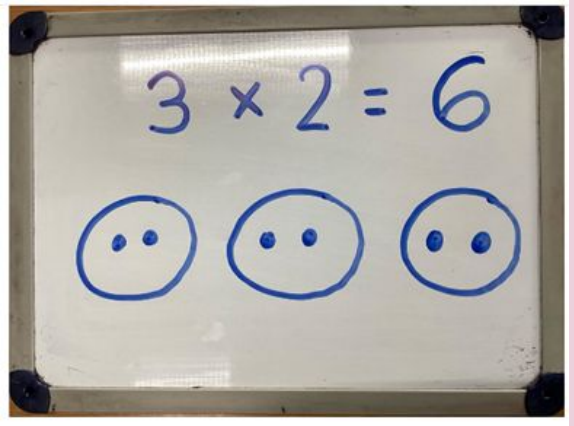


Use Numicon plates

2 x 5 = 10

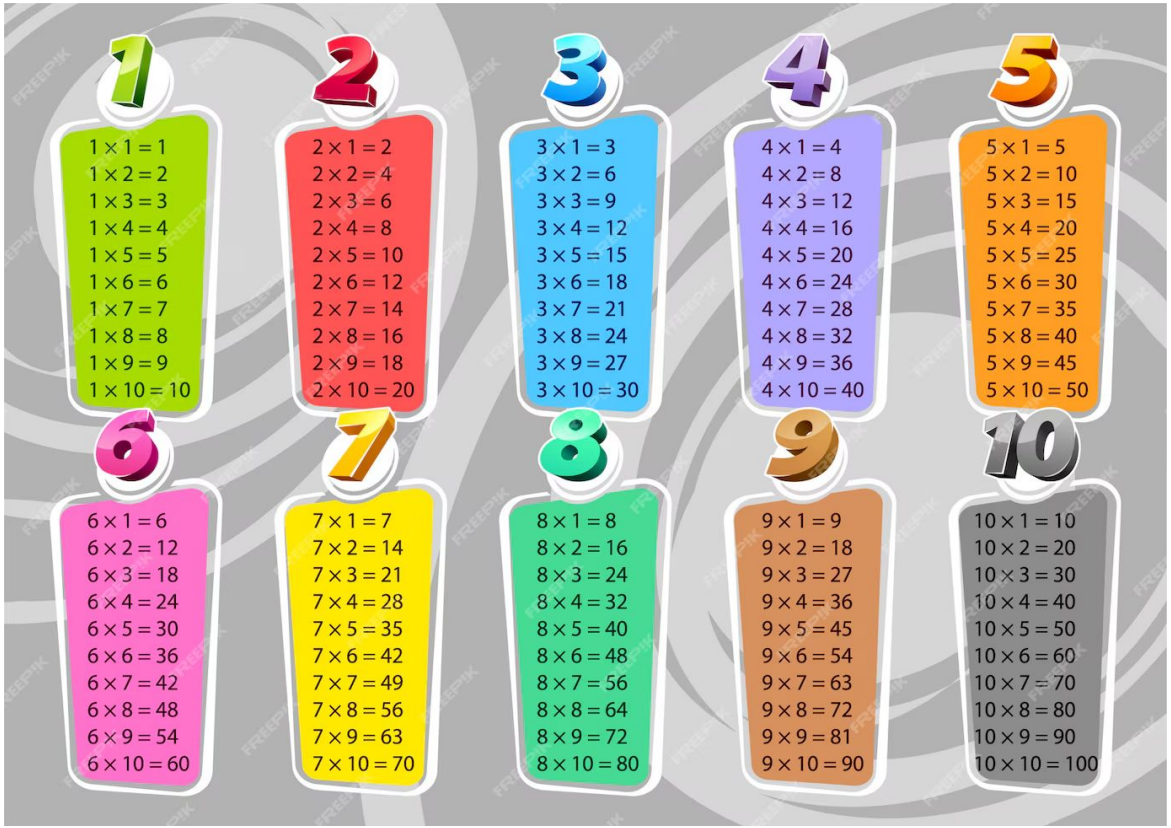


Use circles and spots. Count them to get the correct amount.

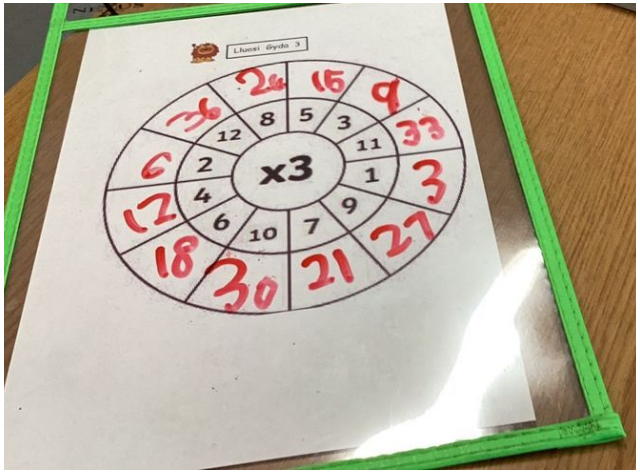


2 digid x 1 digid

Dechrau llafarganu tablau er mwyn eu cofio

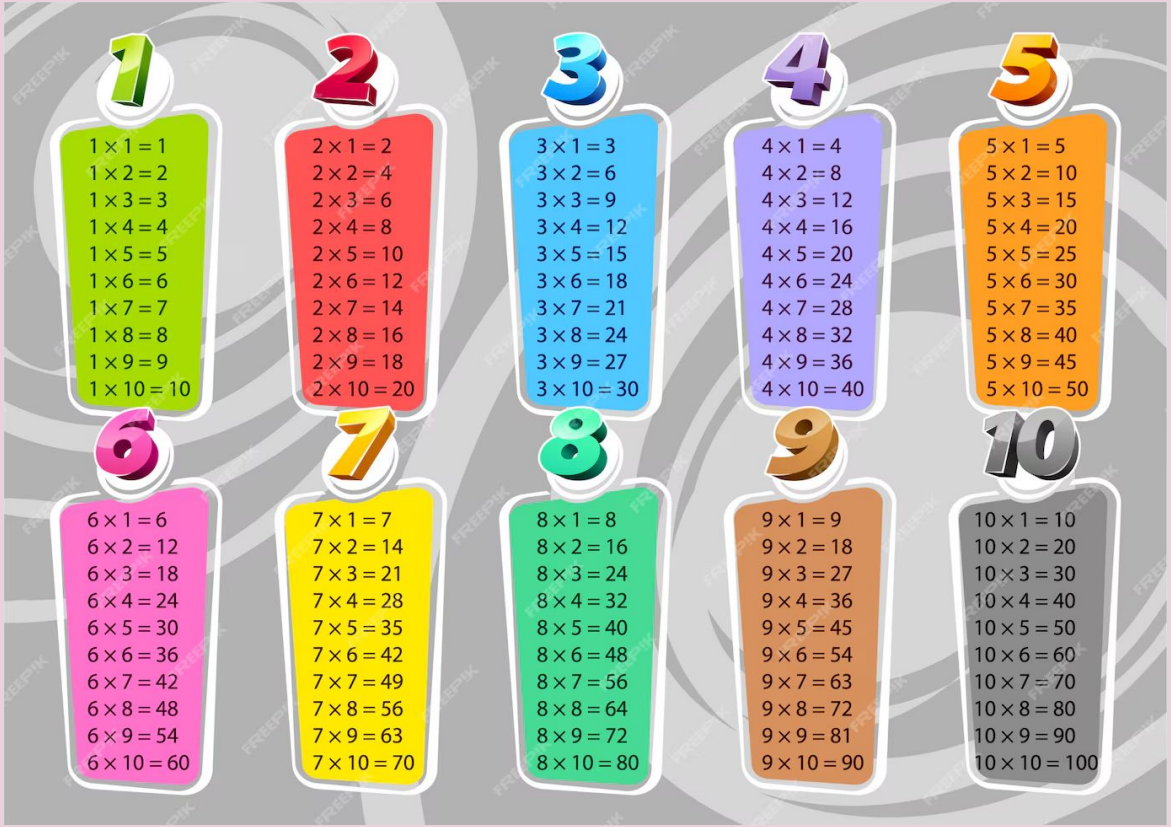


Defnyddio olwynion lluosi



2 digit x 1 digit

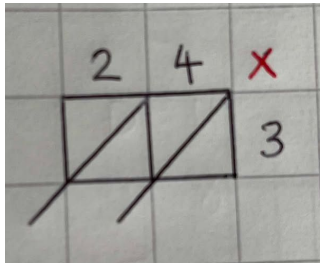
Start reciting time tables in order to remember them.

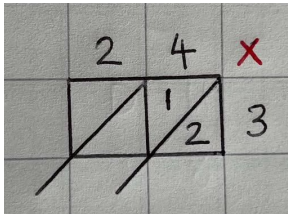


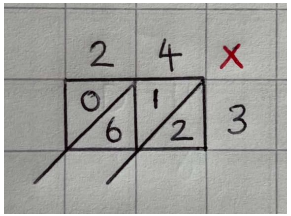
Use multiplication wheels

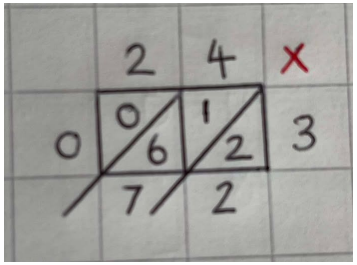
Dull Lluosi Napier

Gallai'r dull yma weithio ar gyfer unrhyw nifer o ddigidau felly addaswch fel y mynnwch.









Cam 1:
Gosod y rhifau fel bod un rhif i bob bocs ar draws ac am i lawr.

Cam 2:
Gosod llinellau lletraws o gornel dde pob bocs hyd at cornel gwylod chwith y bocs.

Cam 3:
Lluosi'r rhifau at ei gilydd gan gymryd fod pob rhif yn uned.

Cam 4:
Gosod yr ateb bob ochr i'r llinell lletraws.

Cam 5:
Sicrhau bod un uned i bob triongl bach.

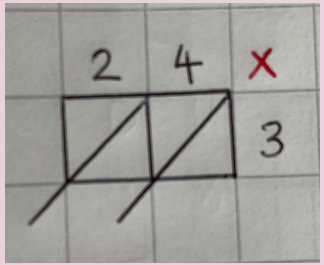
Cam 6:
Ychwanegu'r cyfanswm ar hyd y llinellau lletraws.

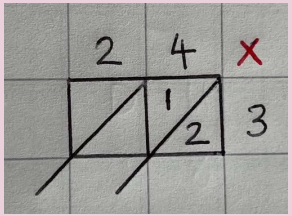
Cam 7:
Os mae'r cyfanswm ar hyd y llinellau lletraws yn fwy na 9; bydd rhaid cario'r deg i'r golofn nesaf.

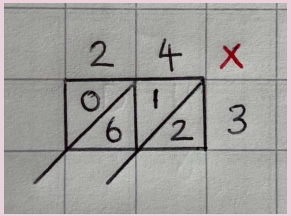
**Ond cofiwch, rydych yn adio'r 'deg' fel uned; felly 1.

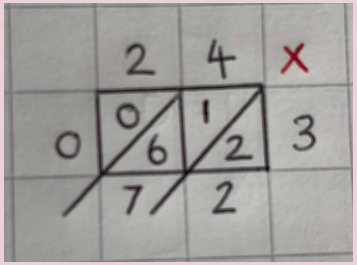
Multiplication Napier Method

This method can work for any amount of digits so you can adapt as necessary.









Step 1:
Place numbers so that each box has a number across and downwards.

Step 2:
Draw lines across from the right corner of each box to the bottom left corner.

Step 3:
Multiply the numbers treating each number as units.

Step 4:
Place the answer either side of the line.

Step 5:
Ensure each small triangle has a unit.

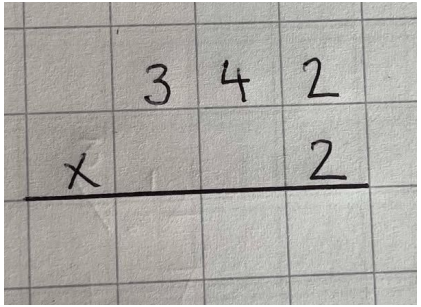
Step 6:
Place the amount at the bottom.

Step 7:
If the amount is more than 9 you will need to carry the ten to the next column.

**But remember you will add the 'ten' as a unit so 1.

Dull lluosi hir

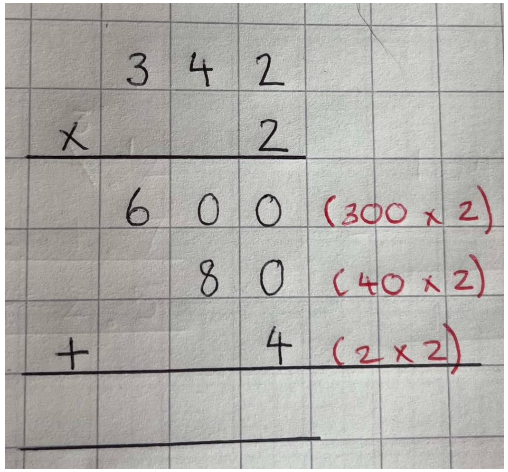
Gallai'r dull yma weithio ar gyfer unrhyw nifer o ddigidau felly addaswch fel y mynnwch.



Cam 1:
Gosod y rhifau fel bod un rhif i bob bocs o dan ei gilydd

Cam 2:
Bydd angen lluosi pob uned yn unigol.

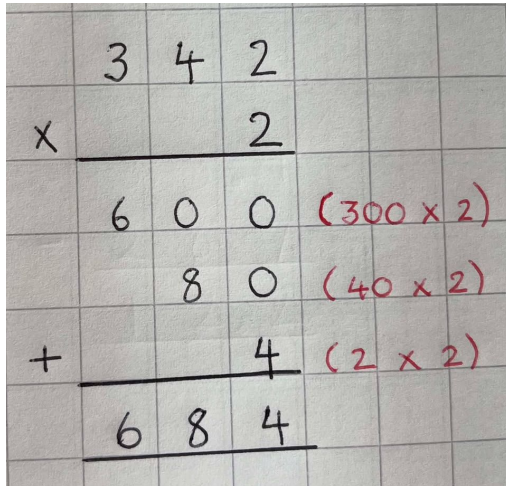
Cam 3:
Dechreuwch gyda'r uned fwyaf a gweithiwch eich ffordd i lawr i'r uned leiaf.



Cam 4:
Cofiwch: Os mae 3 x 4 = 12. Bydd 30 x 4 = 120 a 300 x 4 = 1200.

Cam 5:
Ysgrifennwch yr atebion o dan ei gilydd gan gofio am y colofnau unedau.

Cam 6:
Ychwanegwch y symbol +

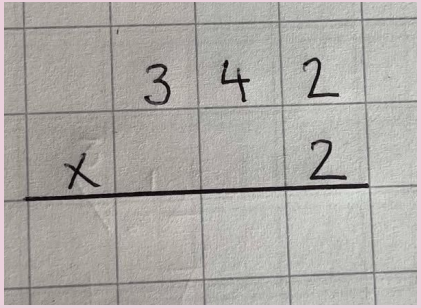


Cam 7:
Bydd angen adio cyfanswm y symiau lluosi rydych newydd eu gwneud.

Dilynwch yr un drefn ag adio fertigol sydd wedi'w esbonio i chi eisoes yn y cyflwyniad

Long Multiplication Method

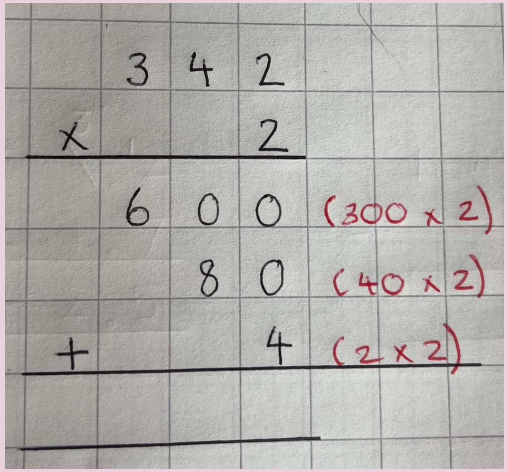
This method can be used for any number of digits.



Step 1:
Place the numbers so that there is one number in each box under each other.

Step 2:
You will need to multiply each unit individually.

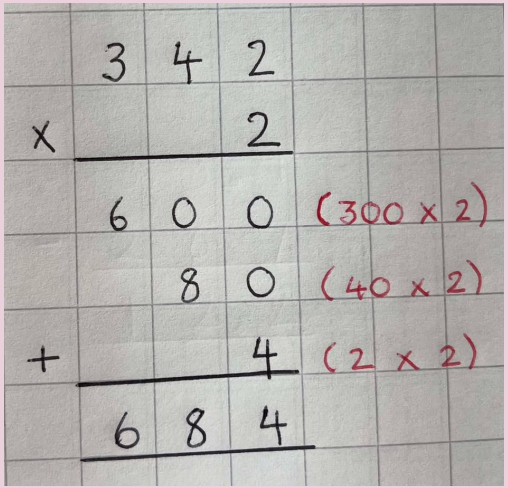
Step 3:
Start with the highest unit and work your way down to the lowest.



Step 4:
Remember: If 3 x 4 = 12. Then 30 x 4 = 120 a 300 x 4 = 1200.

Step 5:
Write the answers under each other and don't forget about hte unit column.

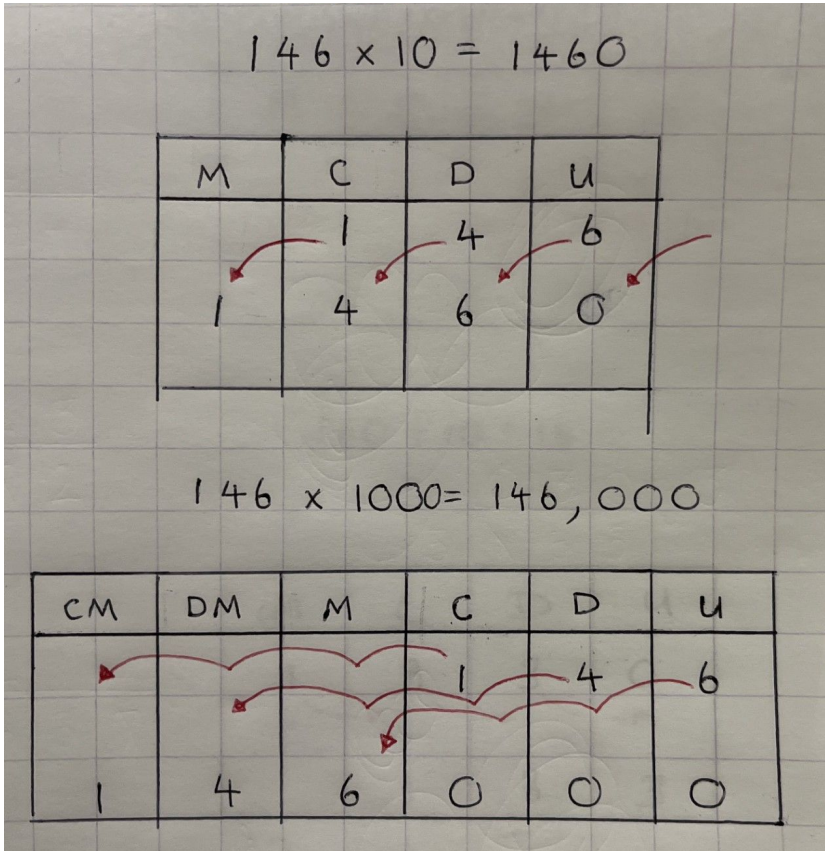
Step 6:
Insert the symbol +



Step 7:
You will need to add the total of the multiplication sums you have made.

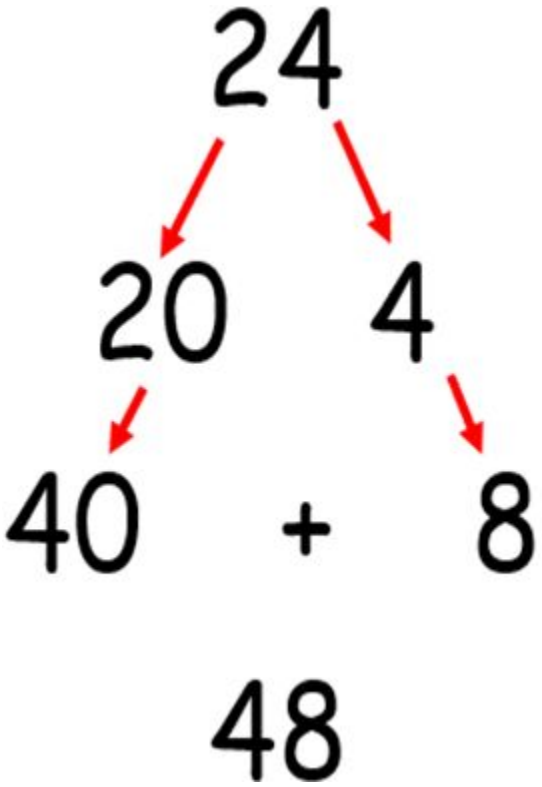
Follow the same adding method explained earlier.

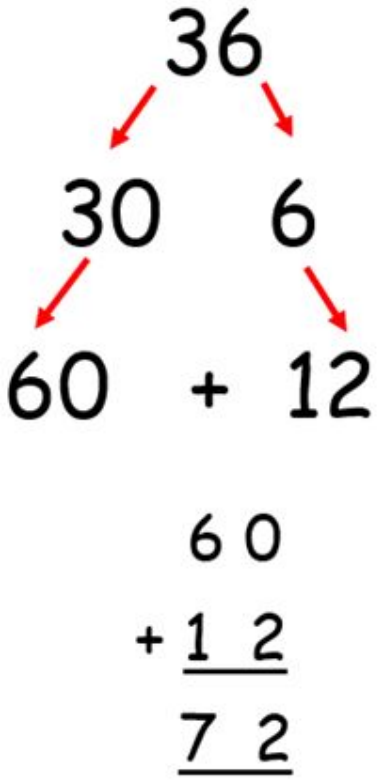
x10, x100, x1000

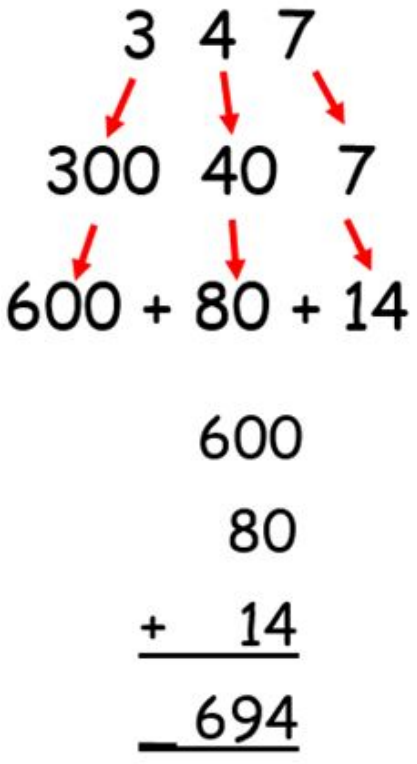


Os mae un sero mewn 10; rydych yn symud y rhifau i fyny unwaith. Os mae dau sero mewn 100; rydych yn symud y rhifau fyny dwy waith ayyb.

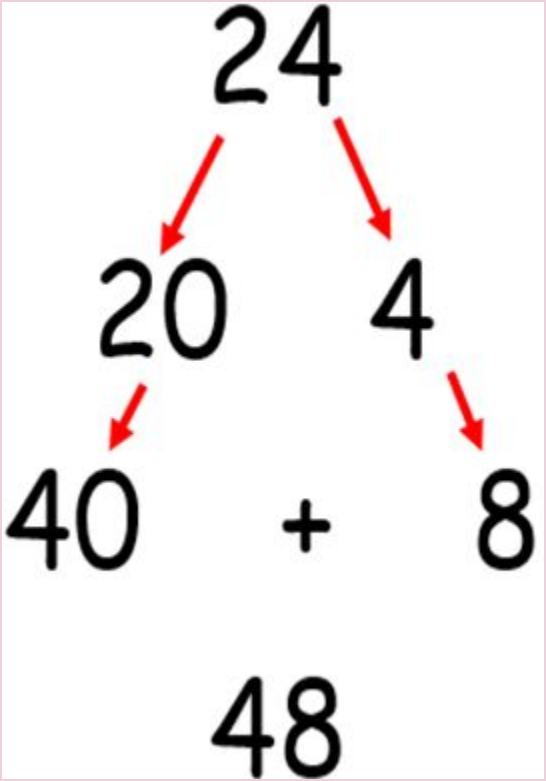
Dwbl Cannoedd Degau Ac Unedau

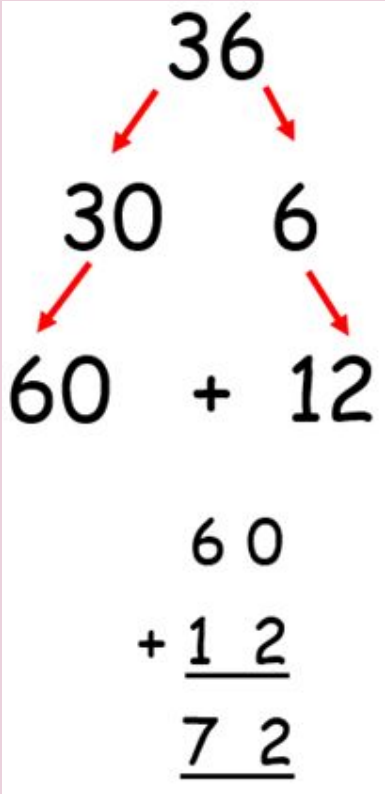


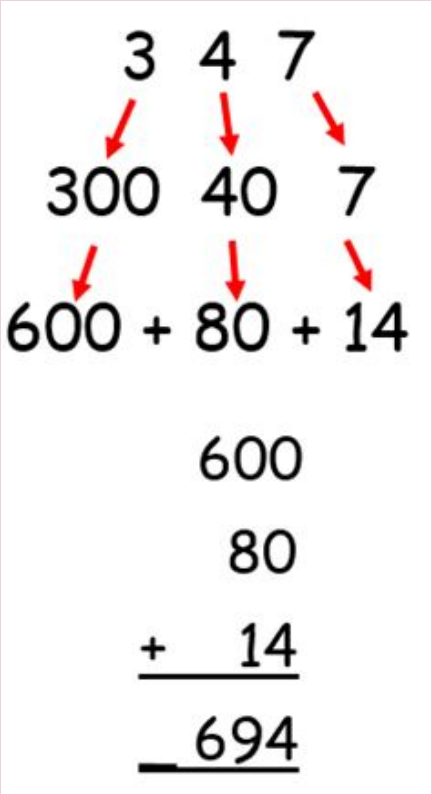




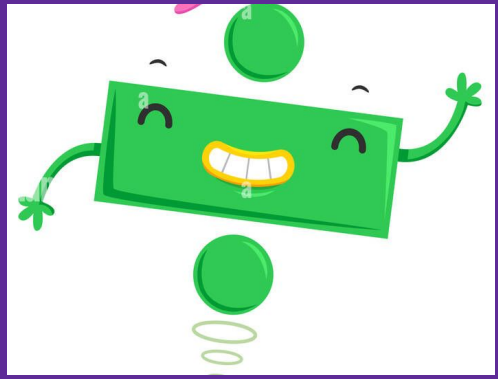
Double Hundreds, Tens and Units







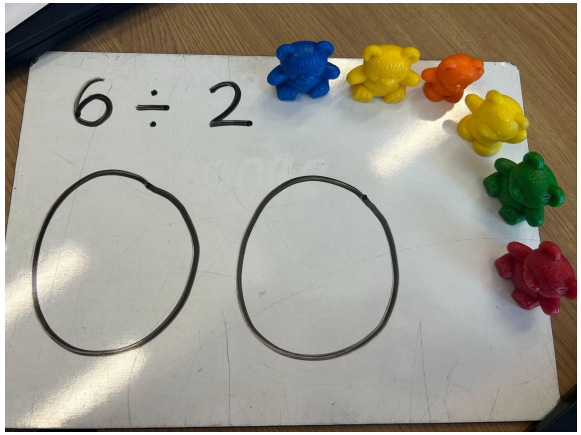
Rhannu/Division



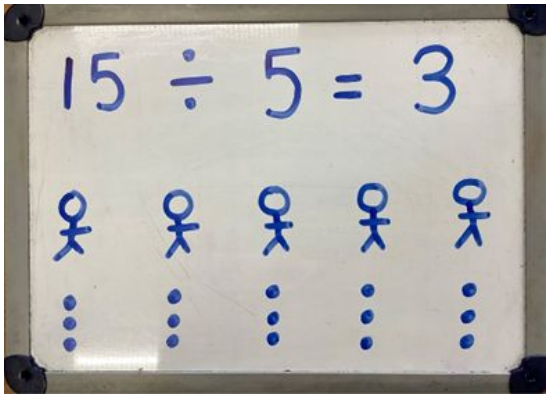
Sut mae dysgu ‘rhannu’ yn edrych yn ein dosbarthiadau.

How does our teaching of ‘division’ look in our classrooms.

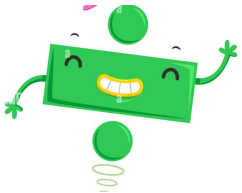
Rhannu



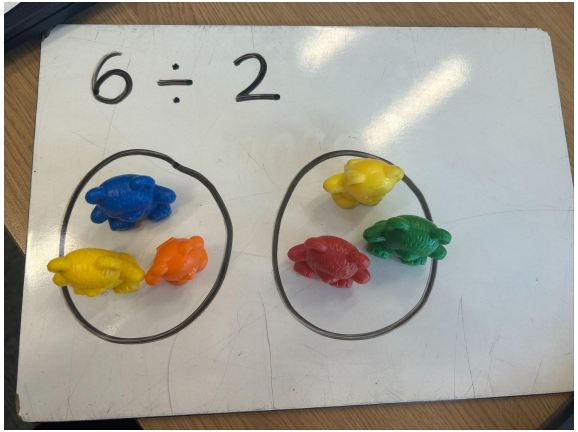
Defnyddio byrddau gwyn a smotiau.

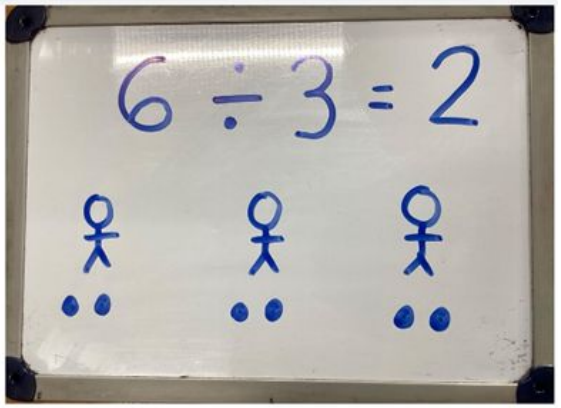


6 rhannu gyda 2 yn hafal i

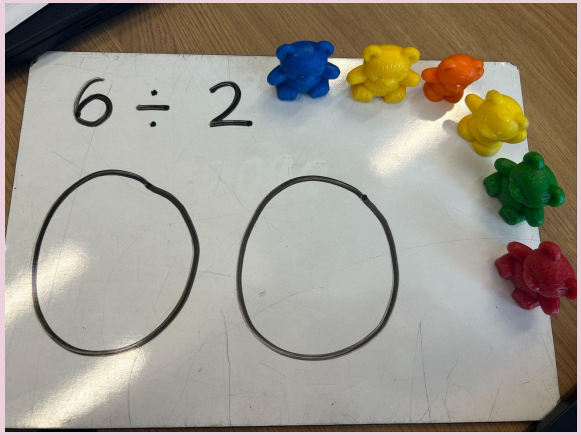


Defnyddio gwrthrychau a cylchoedd.



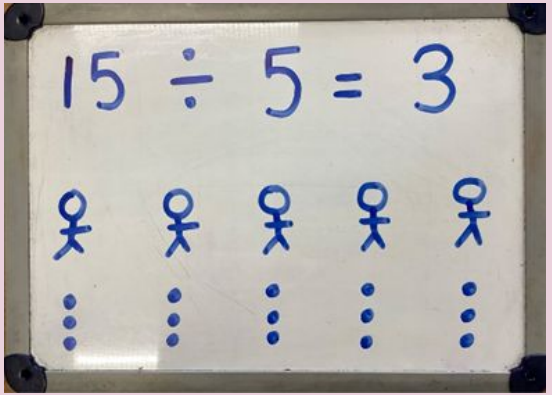


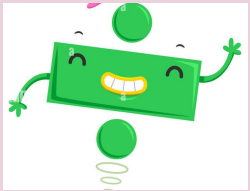
Division



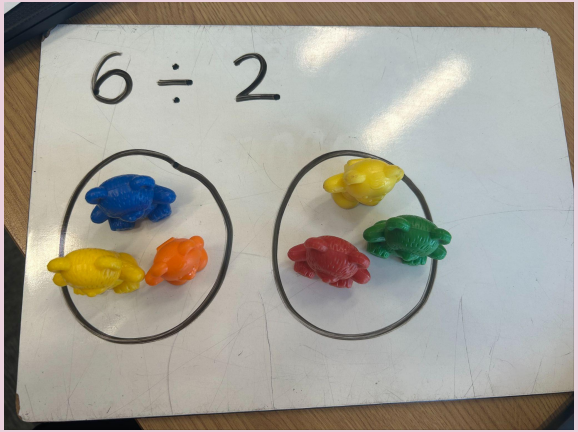
6 divide by 2 equals

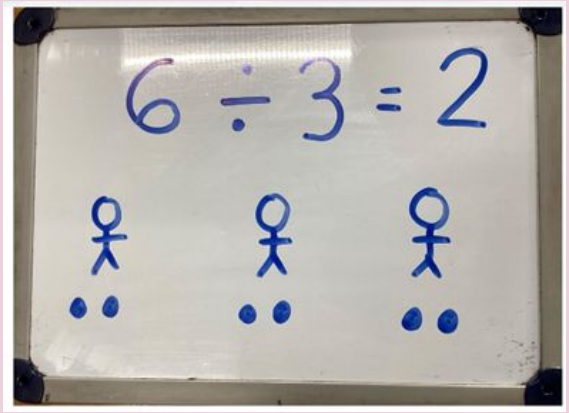
Use white boards and spots.



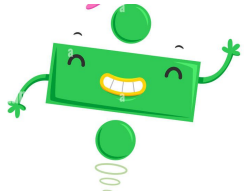


Use objects and circles.

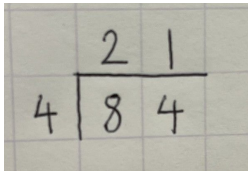




Rhannu hir

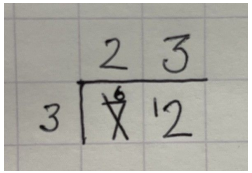


Cam 1



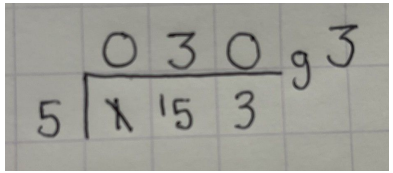
84 ÷ 4
Yma, rydym yn edrych ar y degau fel unedau.
Felly 8 ÷ 4 sef 2 ac yna 4 ÷ 4 sef 1.

Cam 2



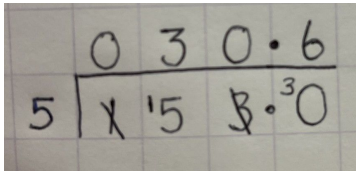
72 ÷ 3
Yma, nid yw 7 yn nhabl 3; felly rydym yn rhannu gyda 6 yn lle (ac yna nodi bod 1 dros ben a'i gario at y rhif nesaf; sy'n gwnud 12.

Cam 3



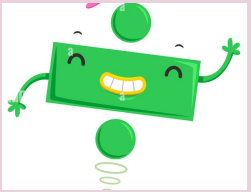
153 ÷ 5
Yma, nid yw'r rhif olaf yn rhannu'n berffaith; felly, rydym yn nodi'r hyn sy'n weddill gyda 'g3'.

Cam 4

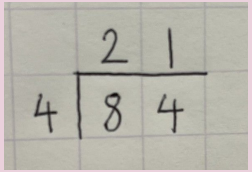


153 ÷ 5
Yma, yn hytrach na ysgrifennu 'g3' rydym yn cario'r gweddill drosodd at y pwynt degol.

Long Division

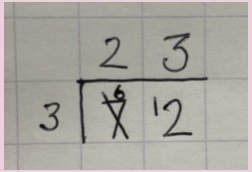


Step 1



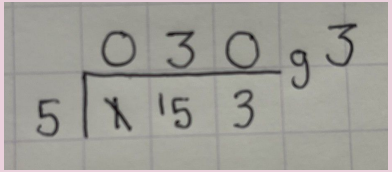
84 ÷ 4
Here we look at the tens as units. So 8 ÷ 4 is 2 an then 4 ÷ 4 is 1.

Step 2



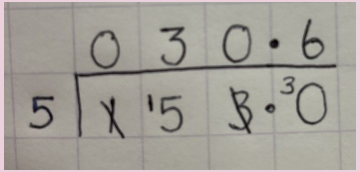
72 ÷ 3
Here, 7 is not in the 3 times table so we divide it by 6 instead (and note that there is 1 over to carry to the next number which makes 12.

Step 3



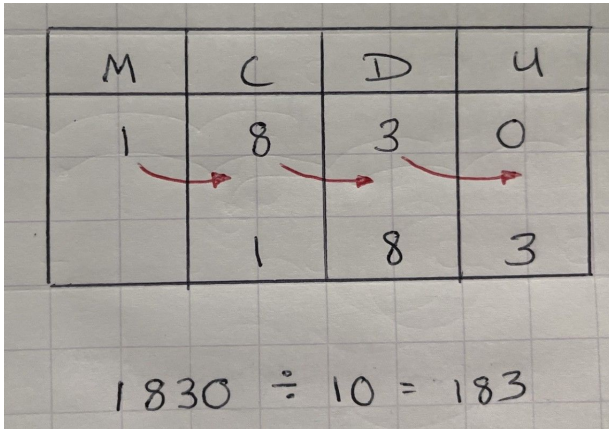
153 ÷ 5
Here the last number does not divide perfectly so, we note what is left with ‘g3’.

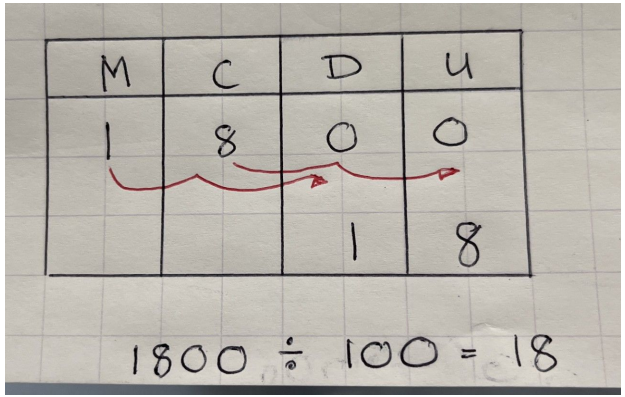
Step 4



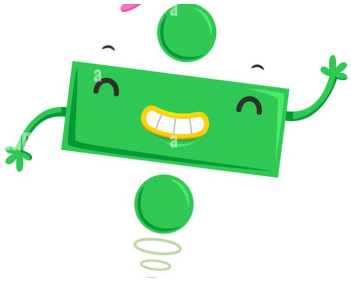
153 ÷ 5
Here, rather that write yn ‘g3’ we carry what is left over to the decimal point.

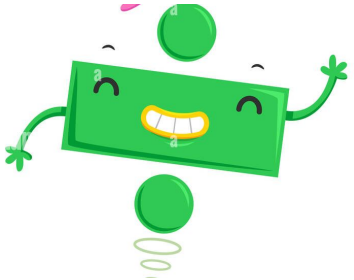
÷10, ÷100, ÷1000



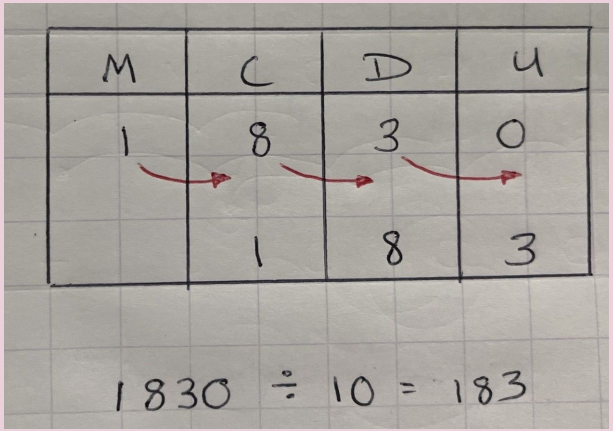


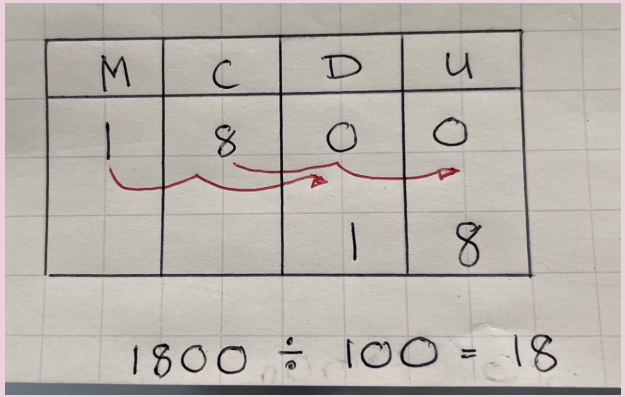
Os oes un sero mewn 10; rydych yn symud y rhifau i lawr unwaith. Os oes dau sero mewn 100; rydych yn symud y rhifau i lawr dwy waith ayyb.



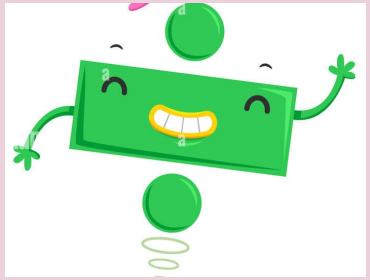


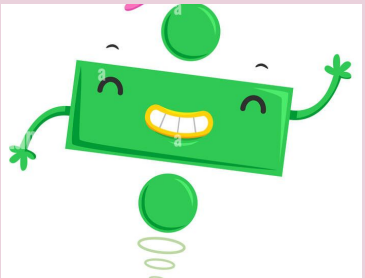
÷10, ÷100, ÷1000



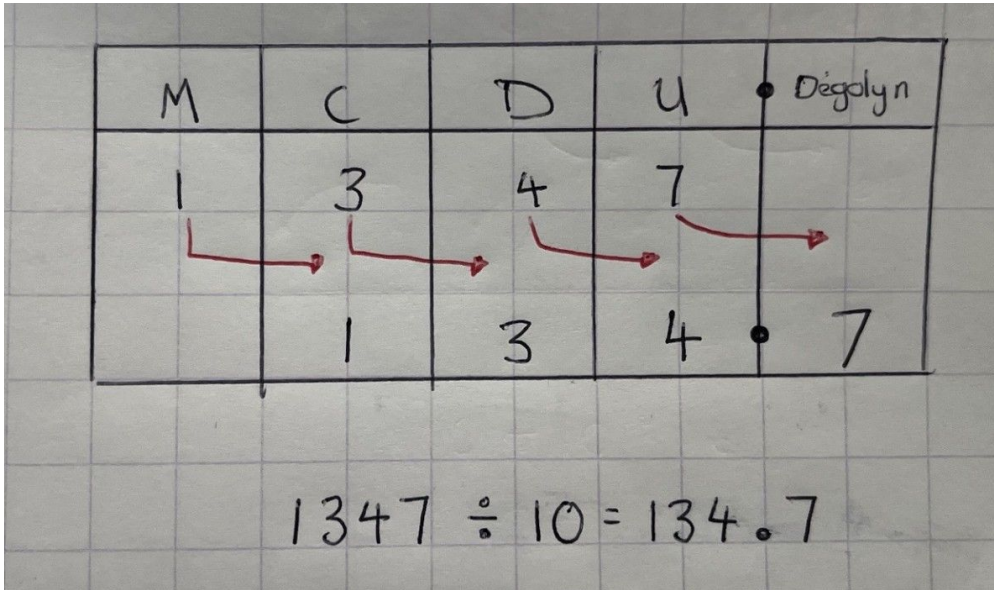


If there is one zero in 10; you move the numbers down once. If there is two zeros in 100; you move the numbers down twice etc.



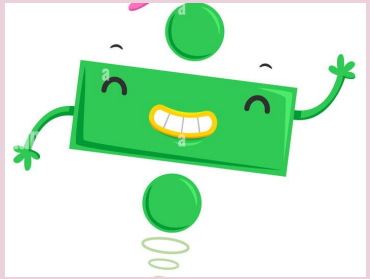


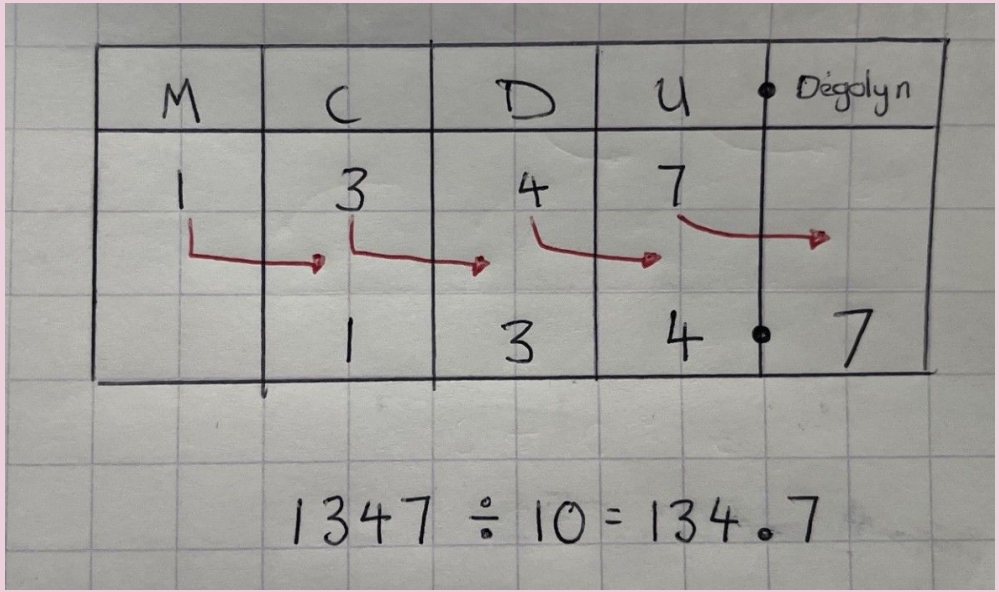
÷10, ÷100, ÷1000 (Degolion)



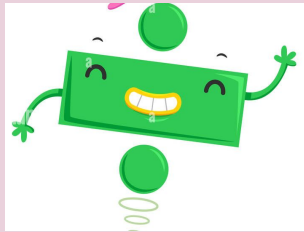
Os oes un sero mewn 10; rydych yn symud y rhifau i lawr unwaith. Os oes dau sero mewn 100; rydych yn symud y rhifau i lawr dwy waith ayyb.

÷10, ÷100, ÷1000 (Degolion)

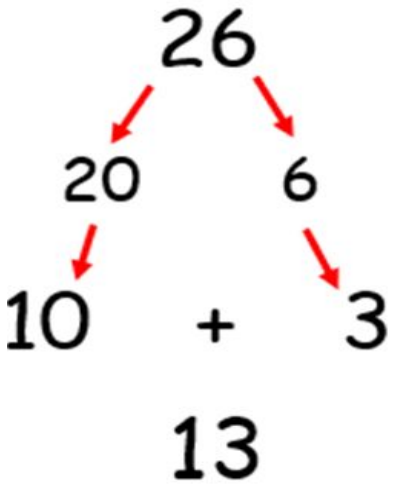


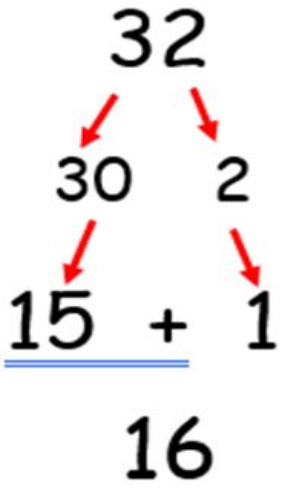


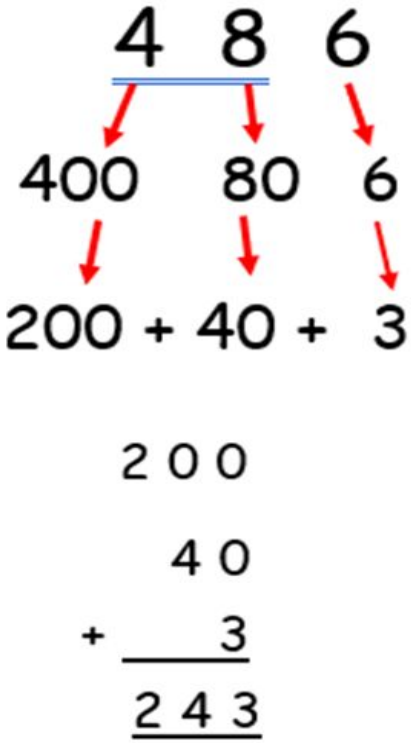
Os mae un sero mewn 10; rydych yn symud y rhifau i lawr unwaith. Os mae dau sero mewn 100; rydych yn symud y rhifau i lawr dwy waith ayyb.

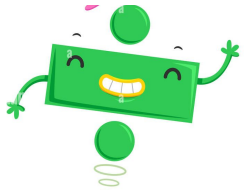


Hanner Cannoedd Degau Ac Unedau

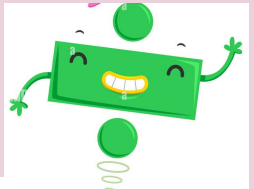








Half Hundreds, Tens and Units



26

20 + 6

10 + 3

13

32

30 + 2

15 + 1

16

486

400 + 80 + 6

200 + 40 + 3

200

40

+ 3

243

Tablau/Times Tables

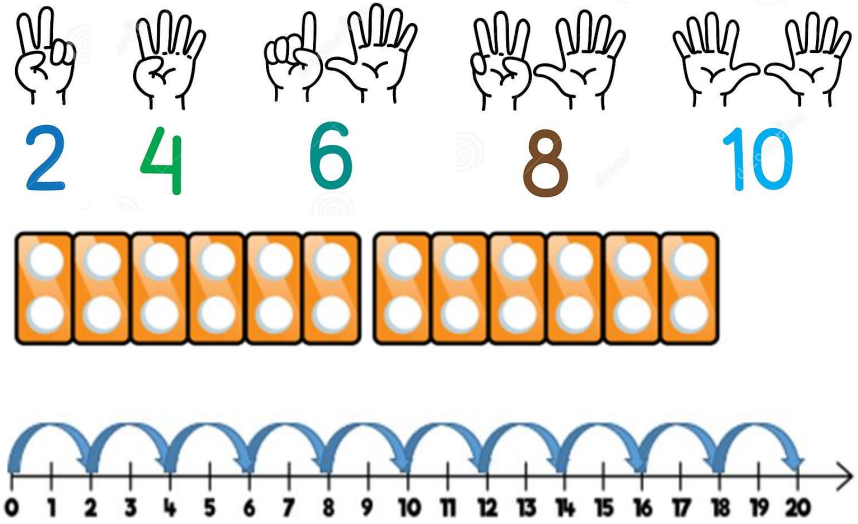
Cychwyn gyda tablau 2,5 a 10 yna ychwanegu y rhai eraill fel mae'r dysgwyr yn barod.
Mae disgwyl i'r dysgwyr wybod eu tablau o 2 hyd at 12.

We start by implementing 2,5 and 10 times tables and then introduce the others as and when the learners are ready. We expect our learners to know their tables from 2 up to 12.

Tabl 2, 5 a 10

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Eilrifau - Gorffen gyda 0, 2, 4, 6, 8



X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Dechrau drwy gyfrif fesul ?

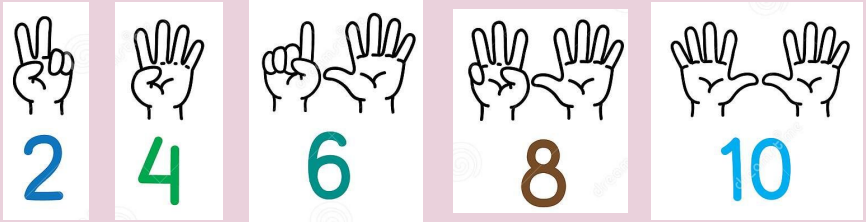
Defnyddio adnoddau i helpu i weld y patrymau

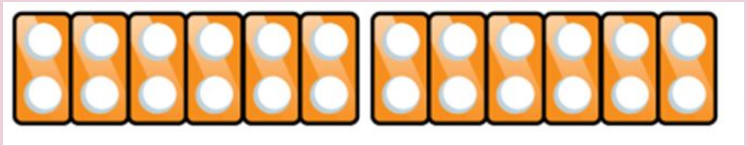
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

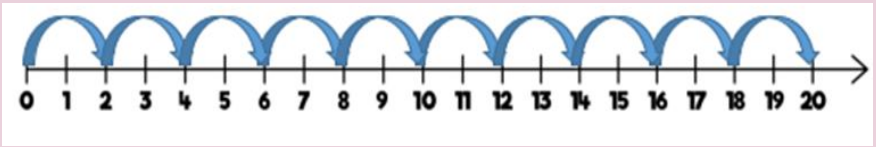
Tables 2, 5 a 10

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Learn even numbers finish with 0, 2, 4, 6, 8







X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Start counting in (pick a number)

Use resources to see the patterns

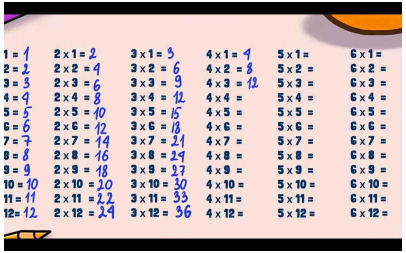
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

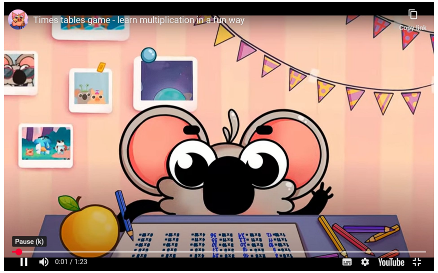
X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100





X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Rydym yn llafarganu ein tablau er mwyn eu cofio.

We say our timetables out loud to remember them.

Defnyddio apiau a gemau ar lein   Use apps or online games

Elfennau Eraill/Other Elements

Arian/Money	Amser/Time	Trin Data/Data
Ffracsiynau/ Fractions	Talgrynnu/ Round off	Siap/Shape
Onglau/ Angles	Cyfartaledd/ Averages	Cyfeiriannu/ Orientation
Amcangyfrif/ Estimate	Rhesymu/ Reasoning	Mesur/ Measuring

Sut i gefnogi adref / How to support at home

Cyfri gyda'ch plentyn ar bob cyfle adref e.e. grisiau, camau, teganau, bwyd, sanau, esgidiau ayyb

Count with your child at every opportunity e.g. stairs, steps, toys, food, socks, shoes etc

Cyfri gyda'ch plentyn yn y car e.e. Sawl car sydd yn mynd heibio, sawl coeden, sawl arwydd ayyb

Count with your child in the car e.e. Count the cars that go past, count trees, signs etc

Cyfri yn yr awyr iach e.e. Sawl drws/tŷ, sawl aderyn, sawl blodyn ayyb

Count outside e.g. houses/doors, birds, flowers etc

Meithrin, Derbyn a Blwyddyn 1

Sut i gefnogi adref / How to support at home

Os yn ymarfer ffurfio rhifau adref - dilyn yr un drefn a'r ysgol.

If your child is practising their numbers at home - ensure they follow the same format as school (page 7).

Ymarfer bondiau rhif 10 a 20 e.e. 5+5, 6+4, 8+2 ayyb

Practise number bonds to 10 and 20 e.g. 5+5, 6+4, 8+2 etc

Cael hwyl wrth ddefnyddio rhifau!

Make numbers fun!

Meithrin, Derbyn a Blwyddyn 1

Sut i gefnogi adref / How to support at home

Ymarfer eu tablau yn aml, llafarganu hefo nhw e.e. ‘mae 2 lluosi gyda 2 yn hafal i ?’

Practice their times tables with them often, sing or chant e.e. 2 multiply by 2 makes ?

Datrys problemau gyda nhw yn eu bywyd pob dydd - e.e. os oes gen i 6 darn o afal ac angen ei rannu gyda ti a dy frawd, sawl darn gewch chi yr un?

Take every opportunity for your child to solve everyday problems e.g. I have 6 pieces of apple to share between you and your brother. How many pieces do you get each?

Trafod yr amser gyda nhw, dysgu edrych ar y cloc faint o’r gloch, sawl munud sydd tan, beth fydd yr amser mewn awr ayyb

Discuss the time with them at home, look at the clock what time is it, how many minutes until, what time will it be in an hour etc

Blwyddyn 2 a 3

Topmarks

Ysgol Carreg Emlyn

Sut i gefnogi adref / How to support at home

Ymarfer eu tablau yn aml, ar ffurf lafarganu syml: h.y. “
Un dau; dau.
Dau dau; pedwar”

Cwestiynnu tablau yn ar-hap.

Cyflwyno swm gwrthdro ee. Beth sydd angen ei luosi gyda 5 er mwyn gwneud 20?

Ymarfer y berthynas rhwng y berthynas rif; ee.

3 x 7 = 21	21 ÷ 7 = 3
30 x 7 = 210	210 ÷ 7 = 30
300 x 7 = 2100	2100÷ 7 =300

Practise their timetables often by saying them outloud.

Ask random timetable questions e.g. what is 8x 5

Ask opposite questions e.g. what do I need to multiply by 5 to get 20?

Practise the connection between the numbers e.g.

3 x 7 = 21	21 ÷ 7 = 3
30 x 7 = 210	210 ÷ 7 = 30
300 x 7 = 2100	2100÷ 7 =300

Topmarks Maths

TT Rockstars

You tube for kids

Blwyddyn 4, 5 a 6

Os oes ganddoch unrhyw gwestiwn am y ddogfen hon mae croeso ichi gysylltu a ni

If you have any questions in relation to this document you are more than welcome to contact us.

.