Making Math/Rendent les mathématiques…

Tangible/Tangible

- ✓ Use of manipulatives
- ✓ Use of models
- ✓ Practical demonstrations
- ✓ Application of concepts in real life situations
- ✓ Use of games or task cards to reinforce mathematical concepts

Visual/Visuelle

Classroom visuals:

- ✓ Anchor charts (reflect a concept and are built in collaboration with the students)
- ✓ Posters
- ✓ Charts
- ✓ Math wall (visual & word lists)

Personal visuals:

- ✓ Math folders
- ✓ Math notebooks (interactive)
- ✓ Key chains
- ✓ Bookmarks
- ✓ Informational cards on a ring

Memorable

- ✓ Memory aids
- ✓ Sports card refills
- ✓ Math Pocket of tools
- ✓ Personal reference folders
- ✓ Personal math dictionaries
- ✓ Math notebooks (interactive)

Tu me dis, j'oublie. Tu m'enseignes, je me souviens. Tu m'impliques, j'apprends.

my money reference card

penny 1¢	nickel 5¢
dime 10¢	quarter 25¢
loonie $1.00	toonie $2.00

my money reference card

penny 1¢	nickel 5¢
dime 10¢	quarter 25¢
loonie $1.00	toonie $2.00

my money reference card

penny 1¢	nickel 5¢
dime 10¢	quarter 25¢
loonie $1.00	toonie $2.00

my money reference card

penny 1¢	nickel 5¢
dime 10¢	quarter 25¢
loonie $1.00	toonie $2.00

Coins	
1 ¢	
5 ¢	
10 ¢	
25 ¢	
1 $	
2 $	

Coins	
1 ¢	
5 ¢	
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25 ¢	
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Coins	
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Coins	
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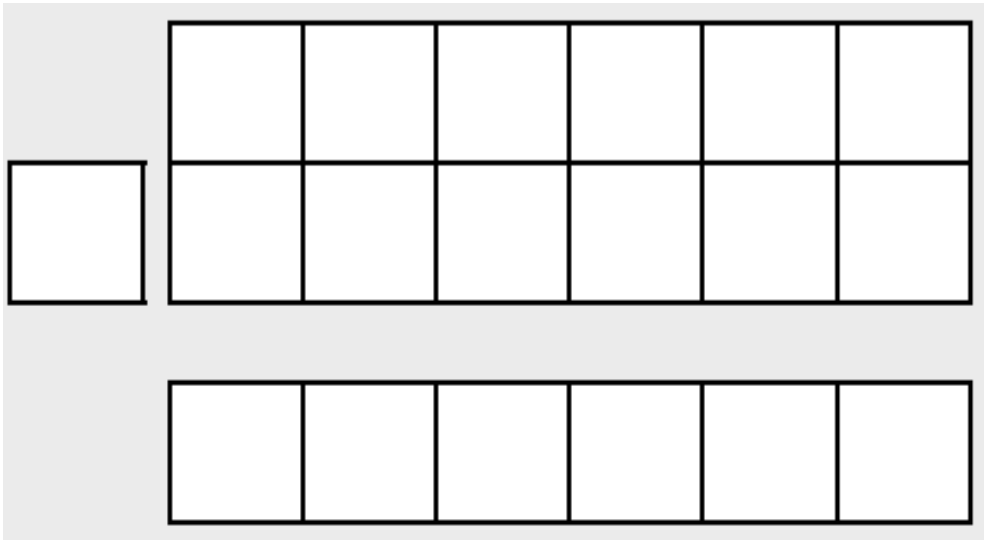

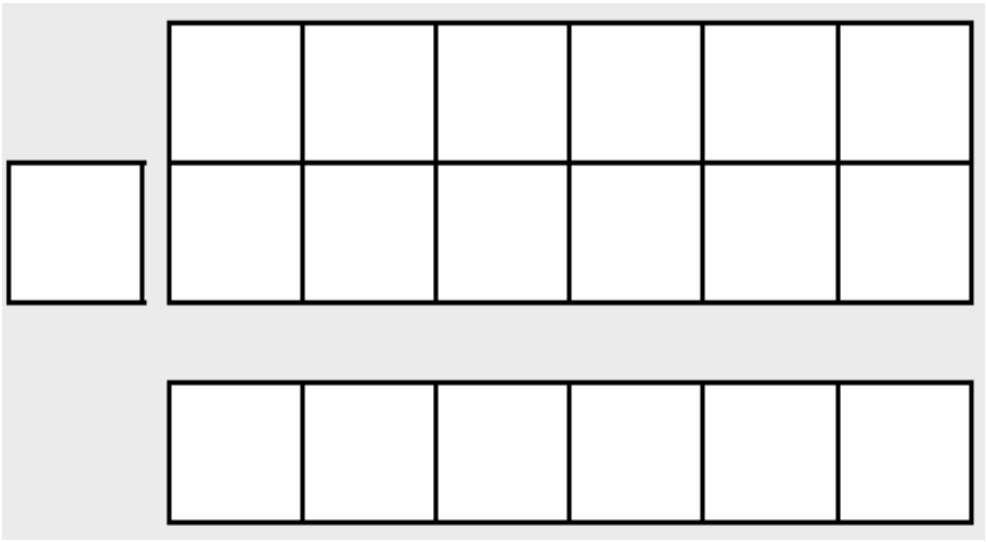

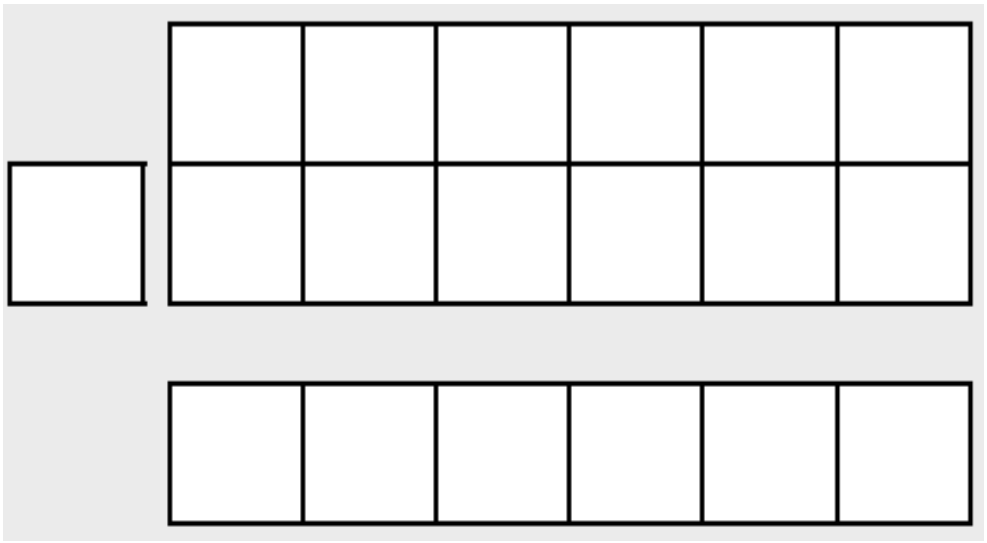

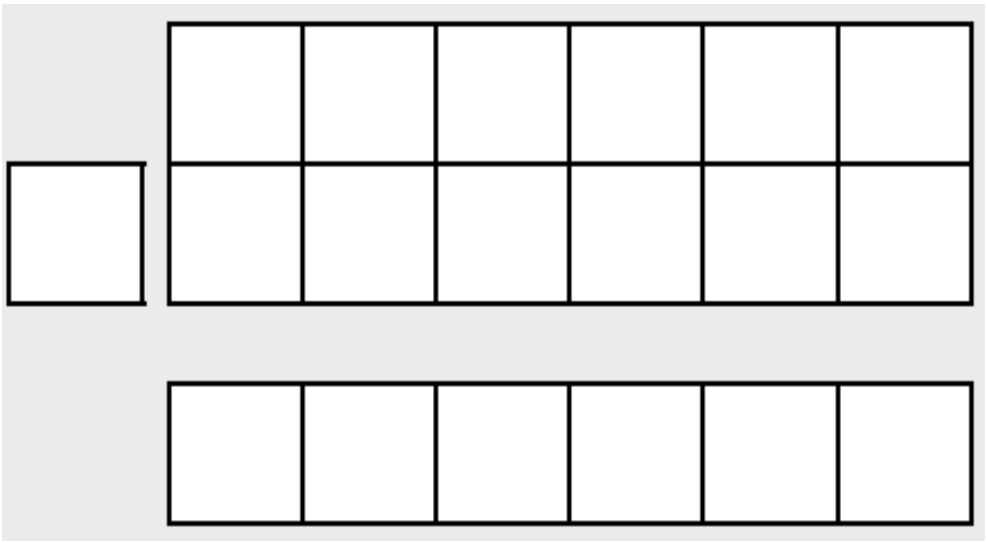

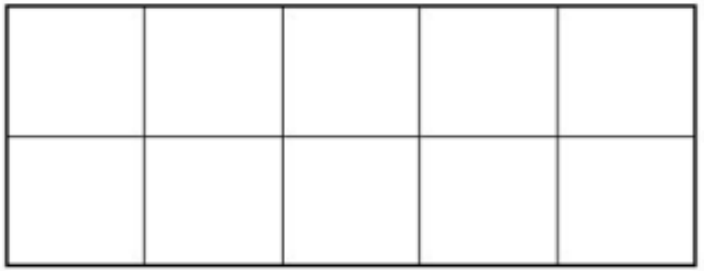

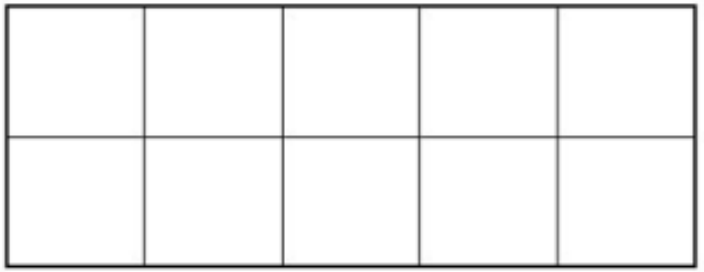

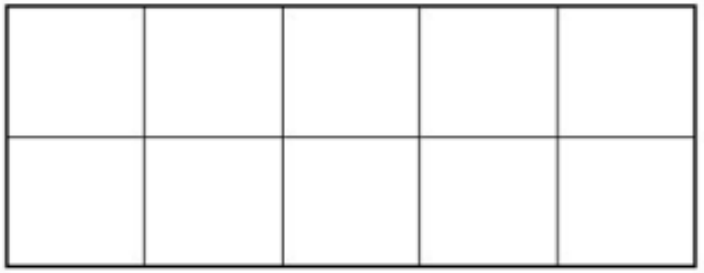

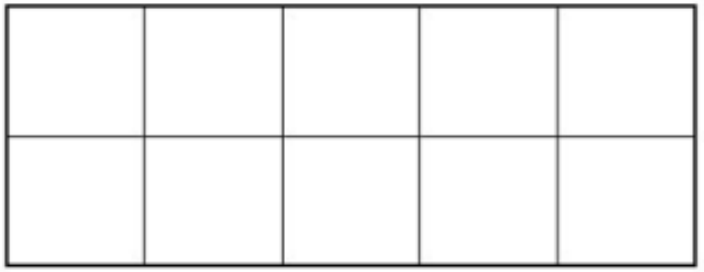

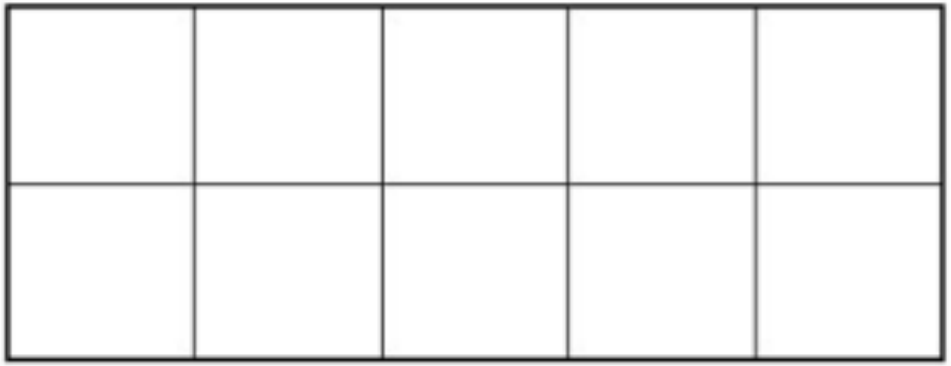

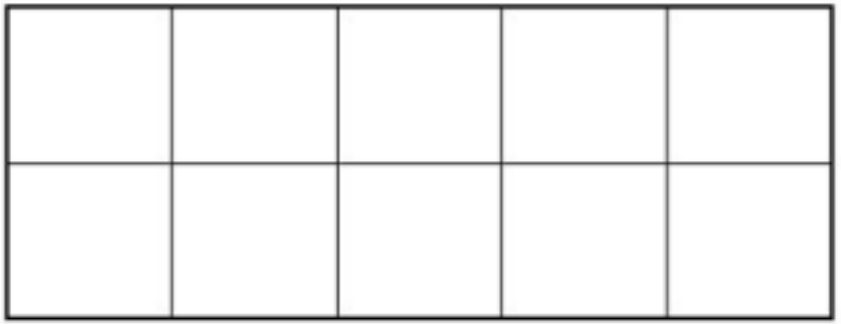

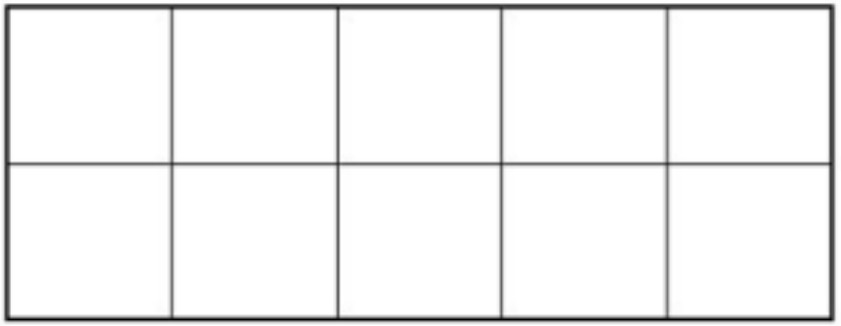

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8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

X	1	2	3	4	5	6	7	8	9	10
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2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
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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
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3	3	6	9	12	15	18	21	24	27	30
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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
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3	3	6	9	12	15	18	21	24	27	30
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8	8	16	24	32	40	48	56	64	72	80
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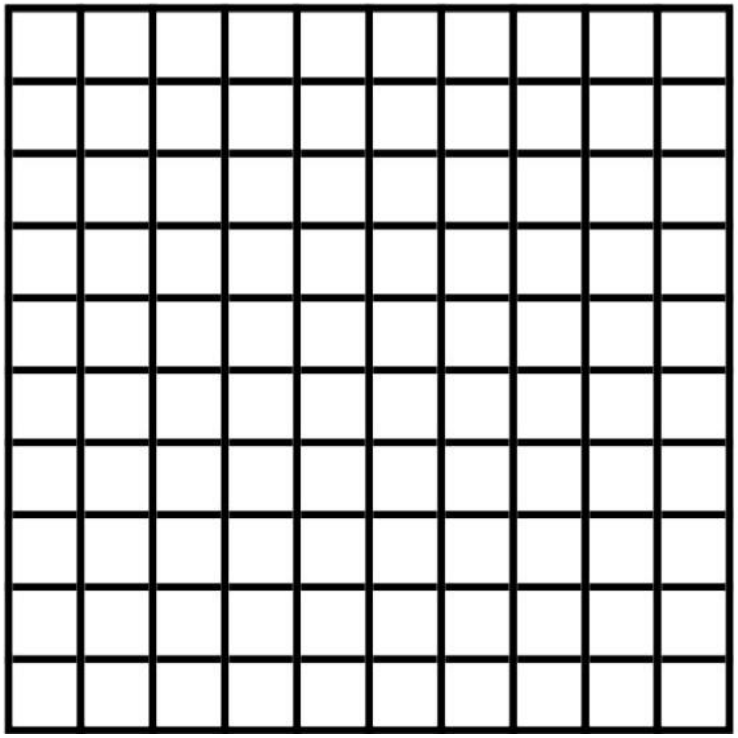
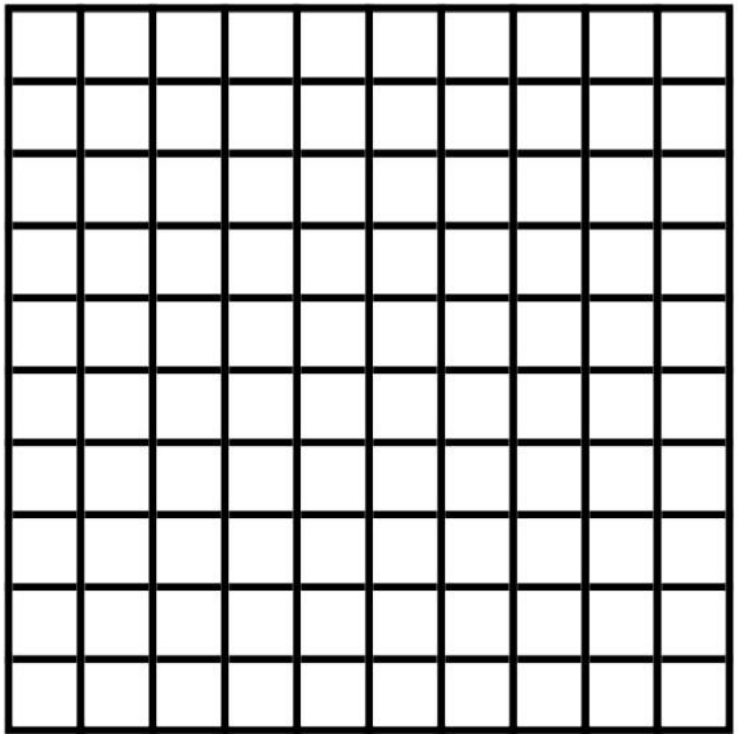
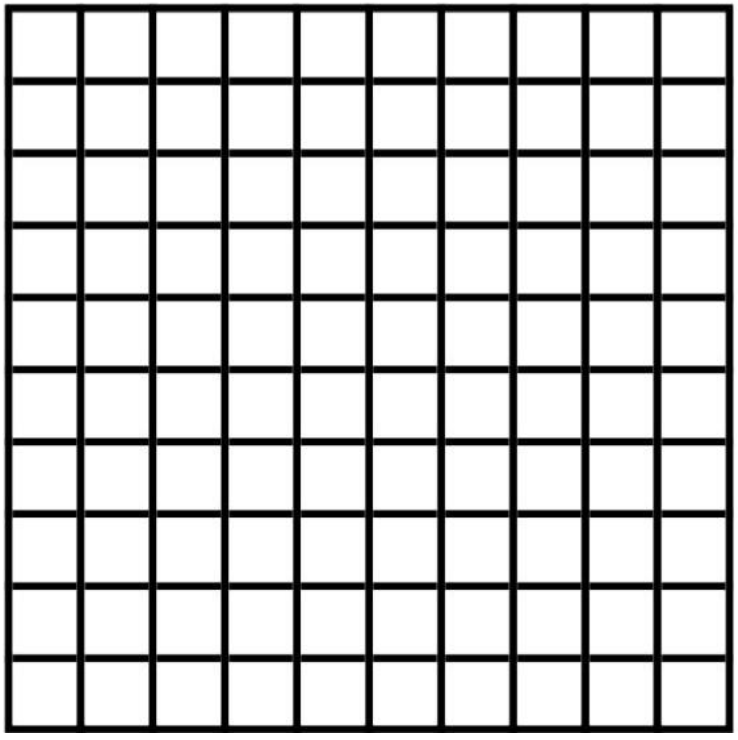
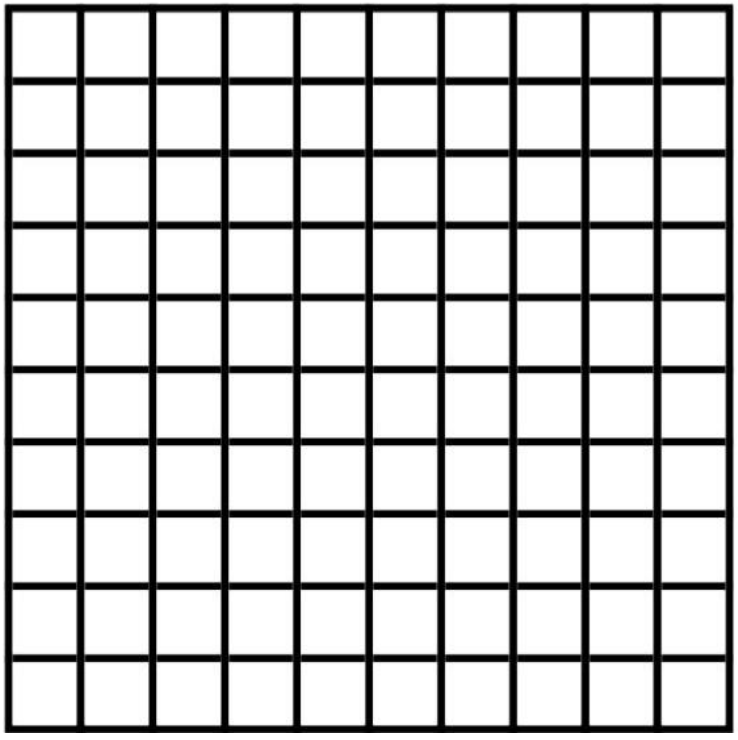

Multiplication Chart

x	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	19	15	29	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

Multiplication Words

product	times
each	multiply
total	altogether

Multiplication means putting together equal groups.

Multiplication Chart

x	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	19	15	29	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
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0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	19	15	29	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
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0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
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5	0	5	19	15	29	25	30	35	40	45
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7	0	7	14	21	28	35	42	49	56	63
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Multiplication Words

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Multiplication means putting together equal groups.

Rounding to the Nearest 10
Rounding Chart

0	1	2	3	4	5	6	7	8	9	10
10	11	12	13	14	15	16	17	18	19	20
20	21	22	23	24	25	26	27	28	29	30
30	31	32	33	34	35	36	37	38	39	40
40	41	42	43	44	45	46	47	48	49	50
50	51	52	53	54	55	56	57	58	59	60
60	61	62	63	64	65	66	67	68	69	70
70	71	72	73	74	75	76	77	78	79	80
80	81	82	83	84	85	86	87	88	89	90
90	91	92	93	94	95	96	97	98	99	100

Rounding to the Nearest 10
Rounding Chart

0	1	2	3	4	5	6	7	8	9	10
10	11	12	13	14	15	16	17	18	19	20
20	21	22	23	24	25	26	27	28	29	30
30	31	32	33	34	35	36	37	38	39	40
40	41	42	43	44	45	46	47	48	49	50
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60	61	62	63	64	65	66	67	68	69	70
70	71	72	73	74	75	76	77	78	79	80
80	81	82	83	84	85	86	87	88	89	90
90	91	92	93	94	95	96	97	98	99	100

Rounding to the Nearest 10
Rounding Chart

0	1	2	3	4	5	6	7	8	9	10
10	11	12	13	14	15	16	17	18	19	20
20	21	22	23	24	25	26	27	28	29	30
30	31	32	33	34	35	36	37	38	39	40
40	41	42	43	44	45	46	47	48	49	50
50	51	52	53	54	55	56	57	58	59	60
60	61	62	63	64	65	66	67	68	69	70
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Rounding Chart

0	1	2	3	4	5	6	7	8	9	10
10	11	12	13	14	15	16	17	18	19	20
20	21	22	23	24	25	26	27	28	29	30
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Hundreds Chart

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
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Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
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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

Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
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71	72	73	74	75	76	77	78	79	80
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91	92	93	94	95	96	97	98	99	100

Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
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71	72	73	74	75	76	77	78	79	80
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51	52	53	54	55	56	57	58	59	60
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71	72	73	74	75	76	77	78	79	80
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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

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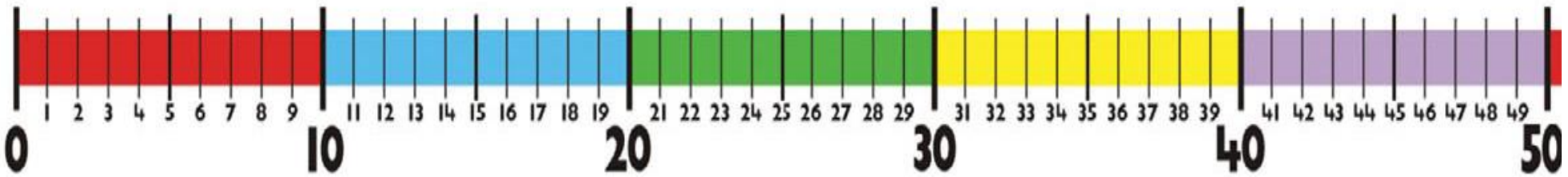
0 1 2 3 4 5 6 7 8 9 10

0 1 2 3 4 5 6 7 8 9 10

0 1 2 3 4 5 6 7 8 9 10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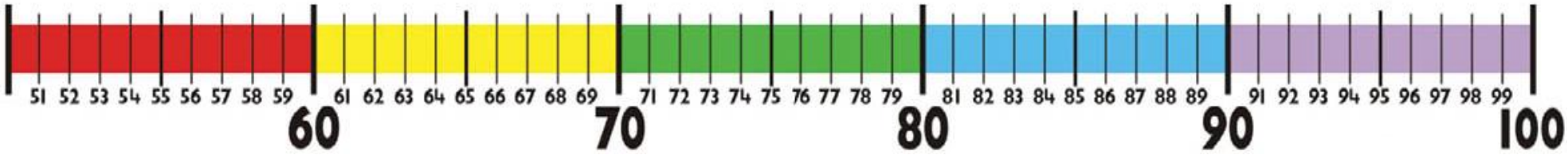
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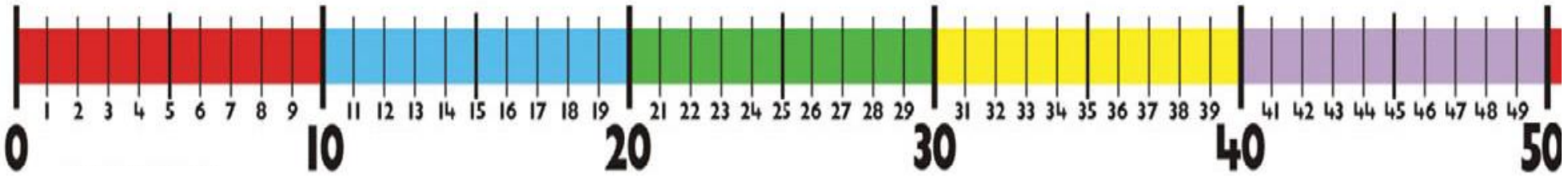
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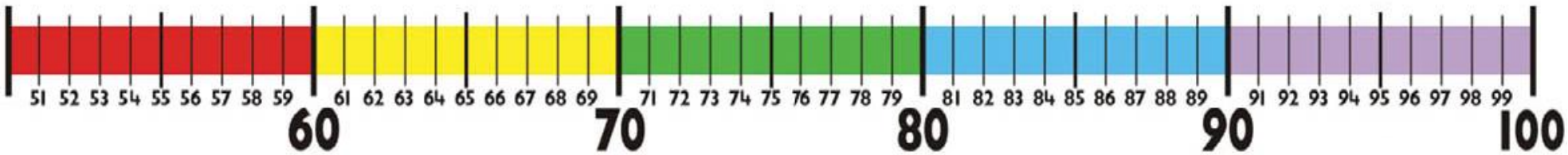
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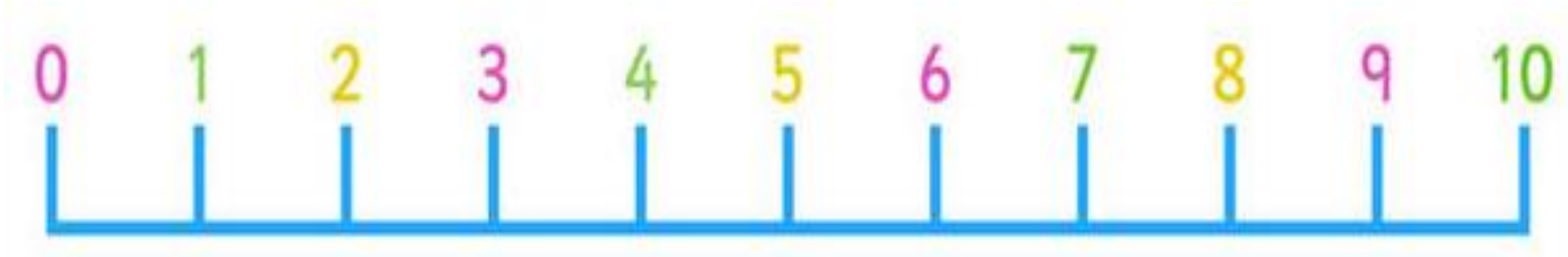
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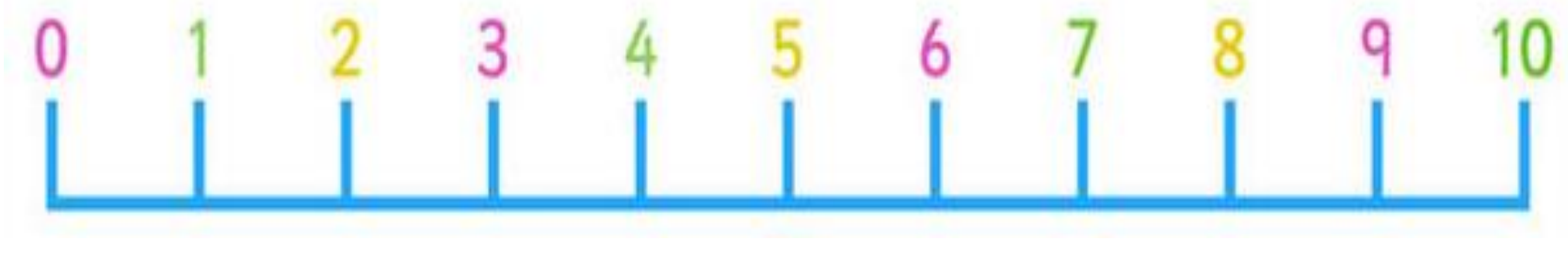
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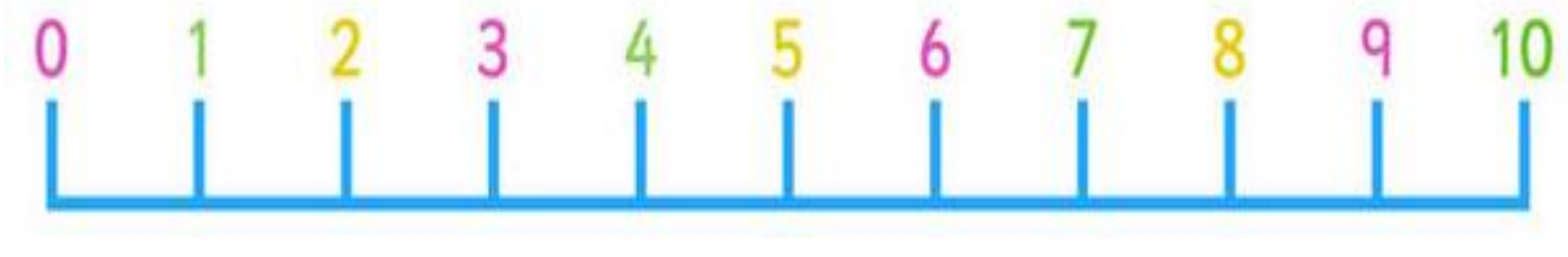
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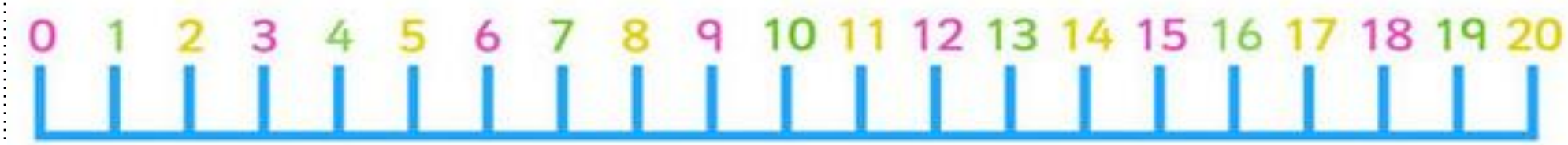
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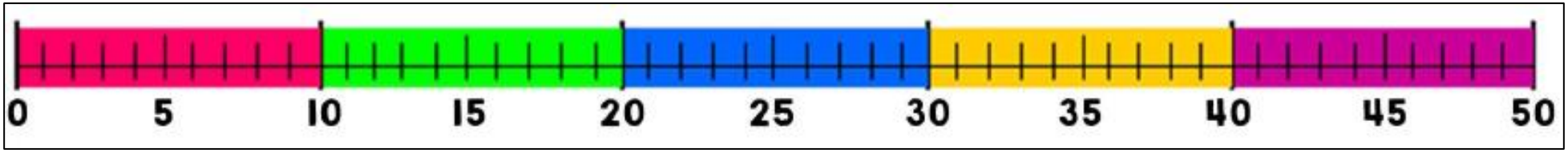
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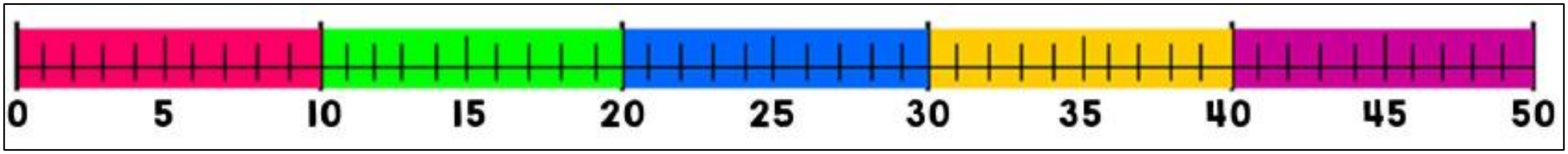
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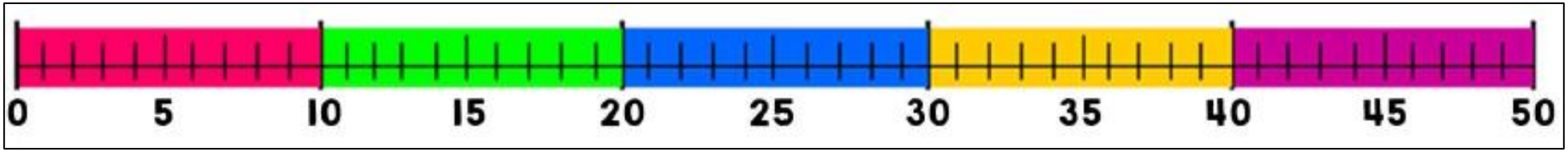
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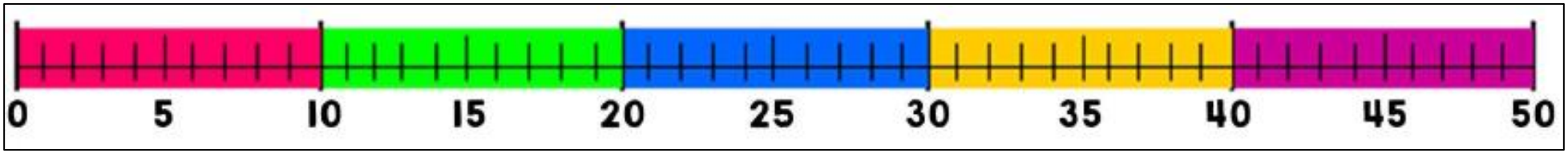
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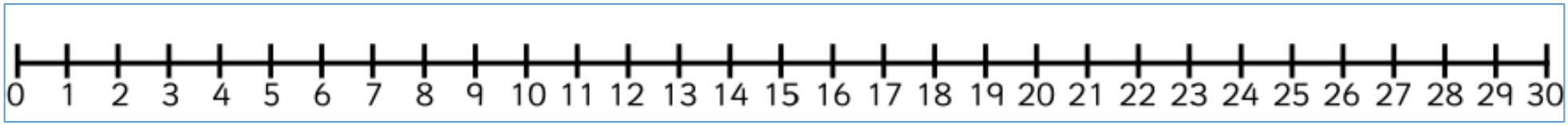
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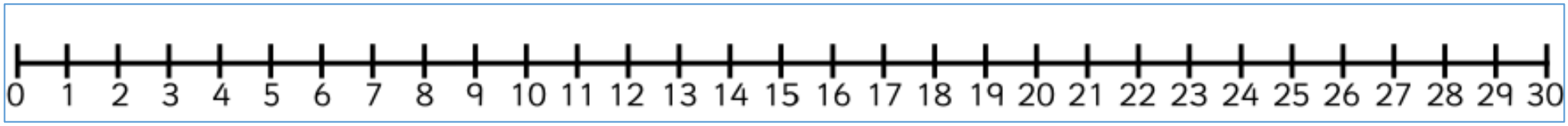
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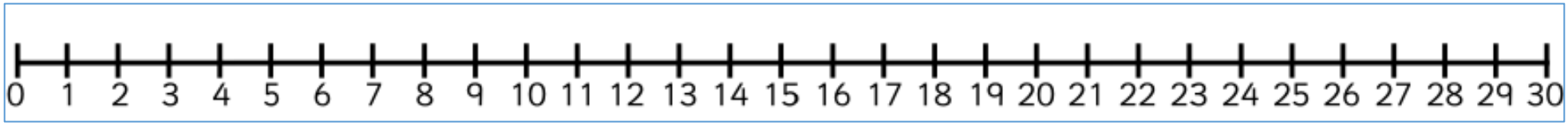
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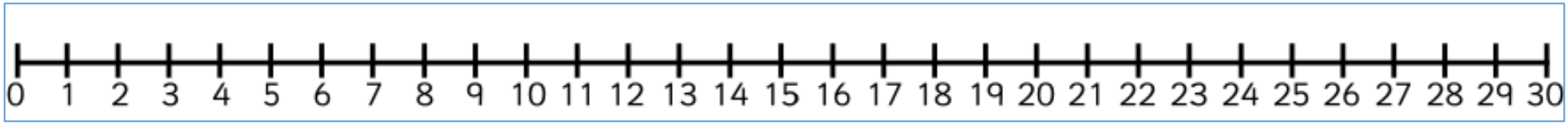
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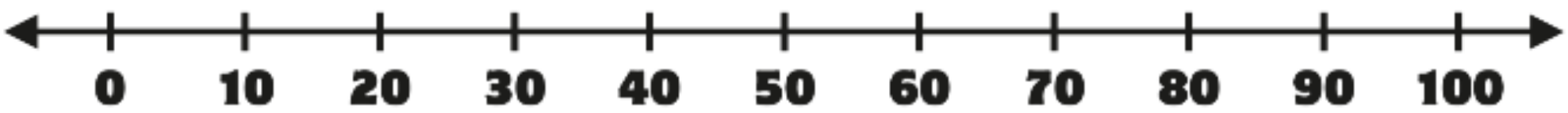
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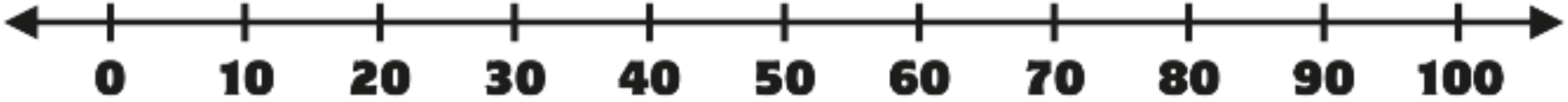
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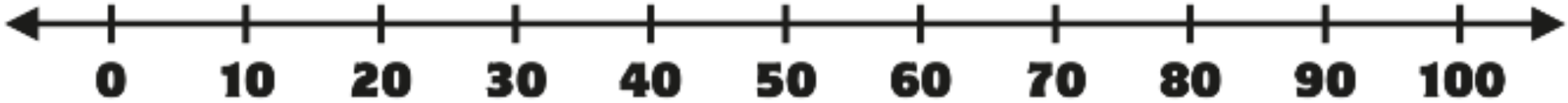
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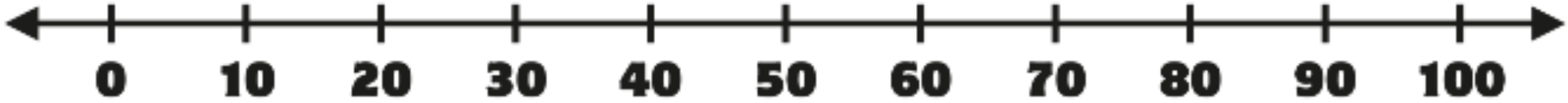
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Numbers 100 ~ 1000

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210	220	230	240	250	260	270	280	290	300
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410	420	430	440	450	460	470	480	490	500
510	520	530	540	550	560	570	580	590	600
610	620	630	640	650	660	670	680	690	700
710	720	730	740	750	760	770	780	790	800
810	820	830	840	850	860	870	880	890	900
910	920	930	940	950	960	970	980	990	1000

Numbers 100 ~ 1000

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Numbers 100 ~ 1000

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Numbers 100 ~ 1000

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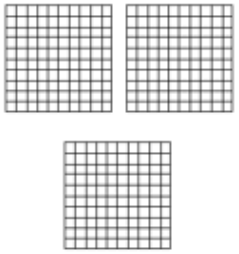
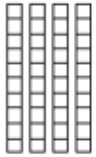
Hundreds	Tens	Ones
		
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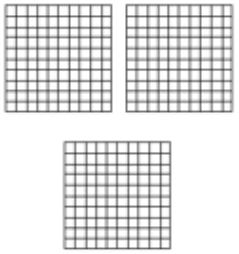
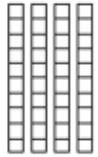
Hundreds	Tens	Ones
		
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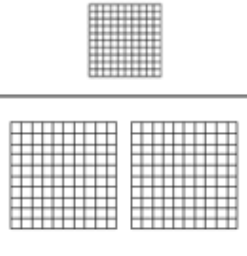
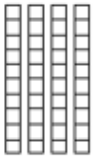
Hundreds	Tens	Ones
		
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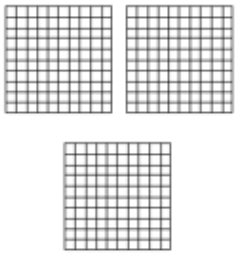
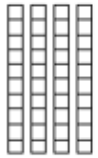
Hundreds	Tens	Ones
		
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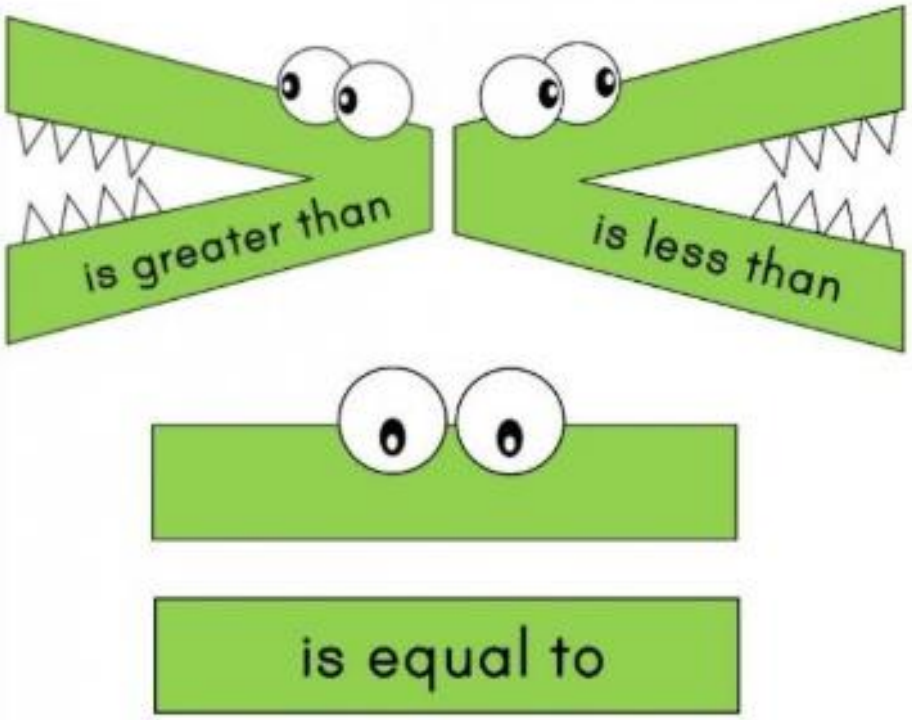
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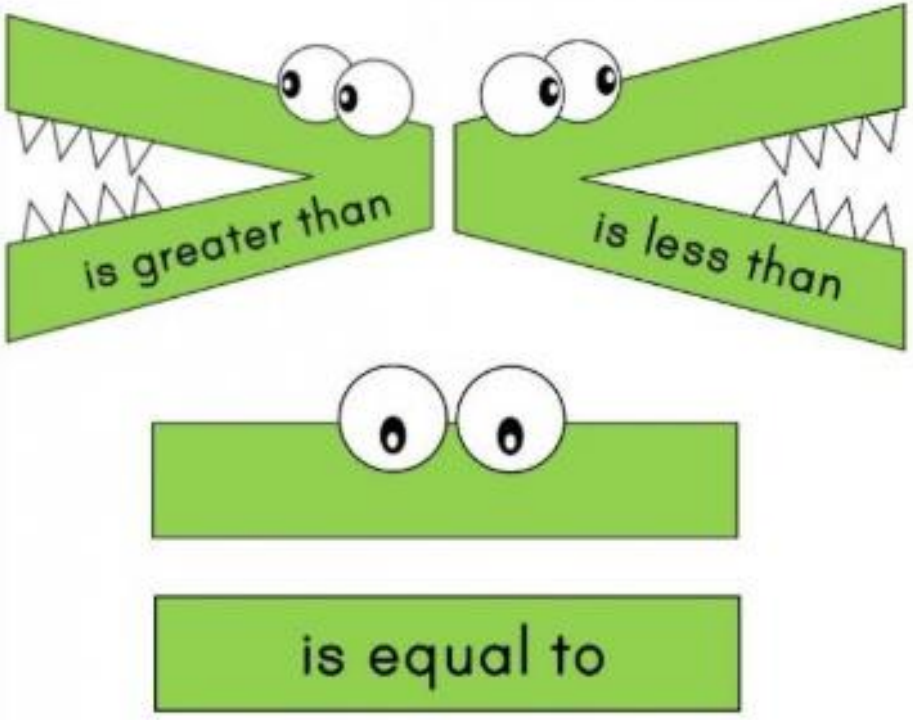
is equal to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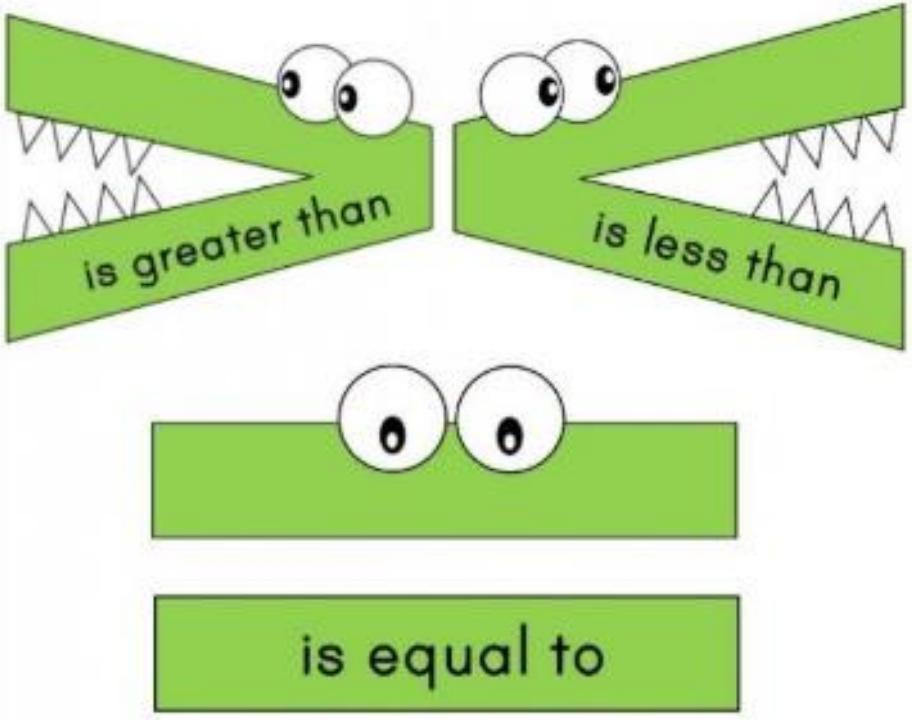
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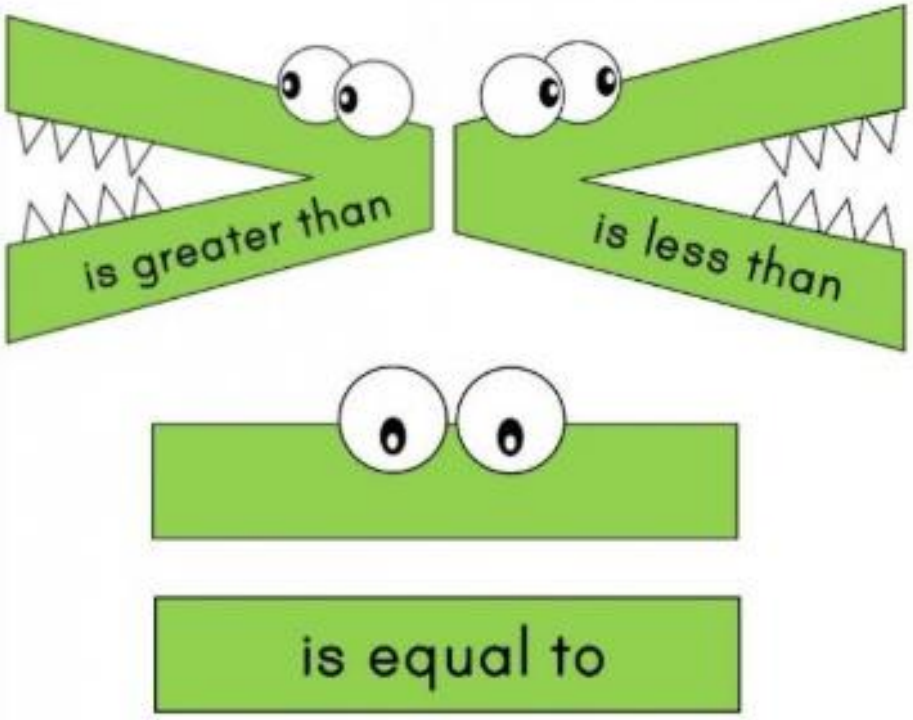
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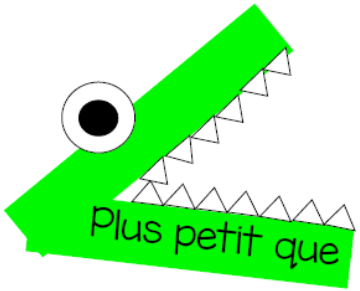
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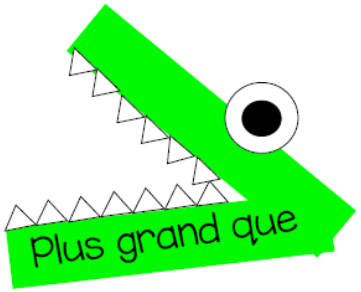
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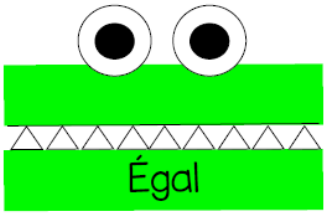
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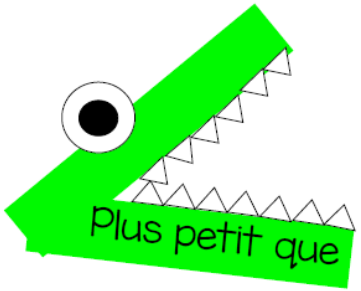
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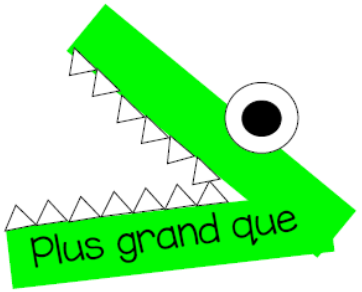
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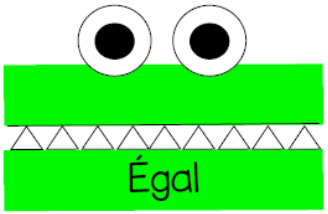
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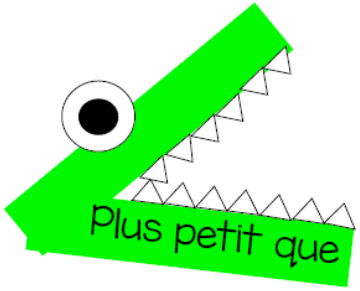
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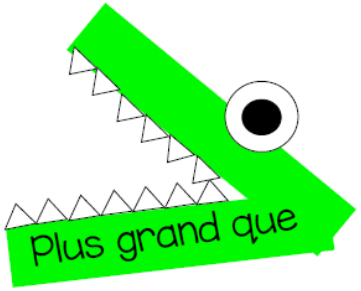
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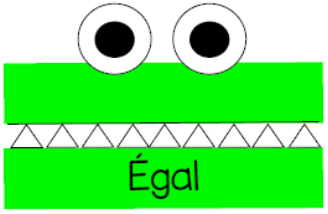
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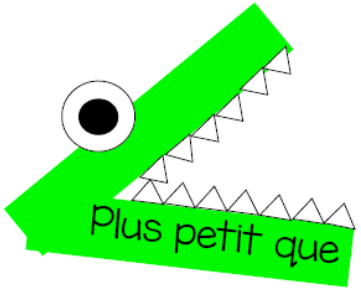
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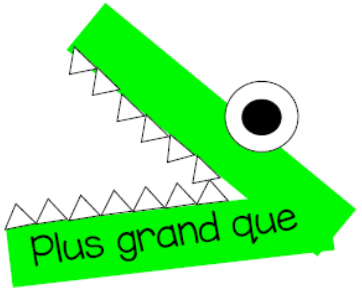
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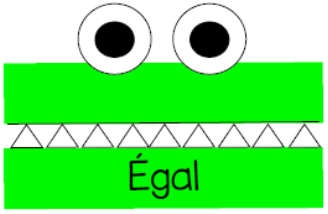
Égal

is greater than

is less than

is greater than

is less than

is greater than

is less than

is greater than

is less than

	$\frac{1}{2}$	one half
	$\frac{1}{3}$	one third
	$\frac{1}{4}$	one fourth

	$\frac{1}{2}$	one half
	$\frac{1}{3}$	one third
	$\frac{1}{4}$	one fourth

	$\frac{1}{2}$	one half
	$\frac{1}{3}$	one third
	$\frac{1}{4}$	one fourth

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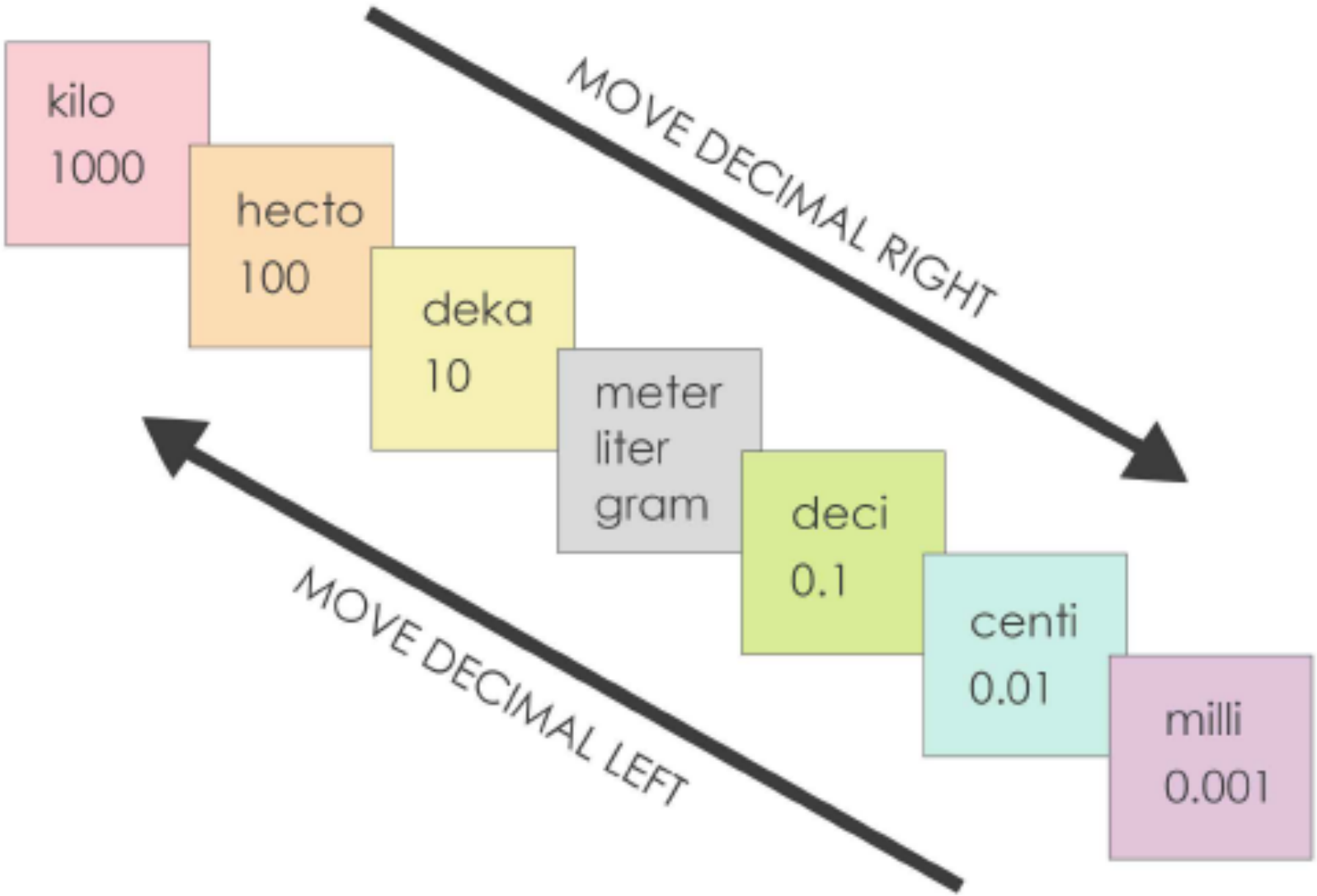
METRIC CONVERSION LADDER



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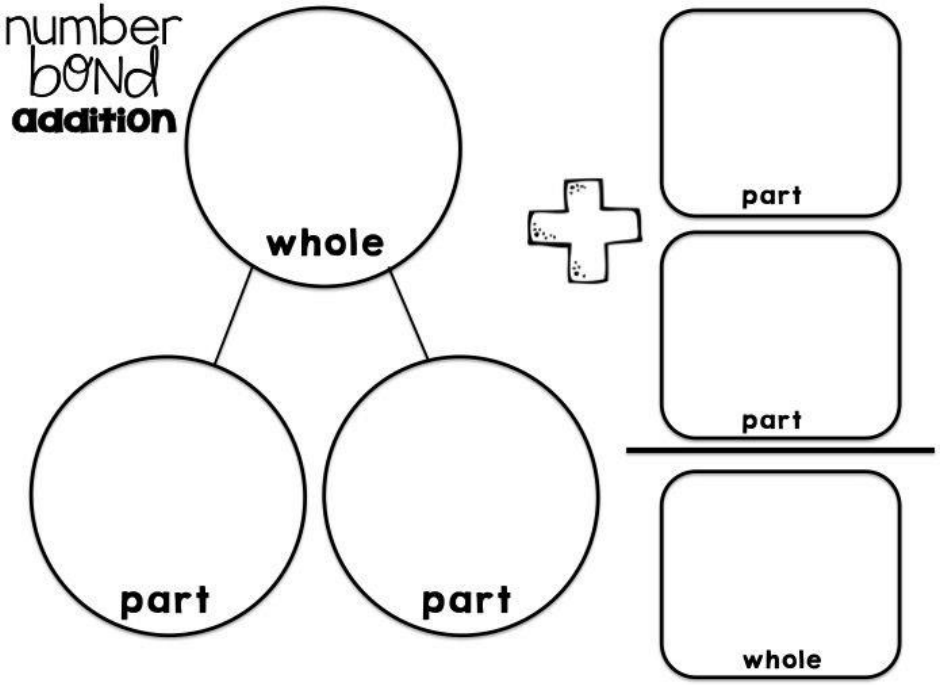

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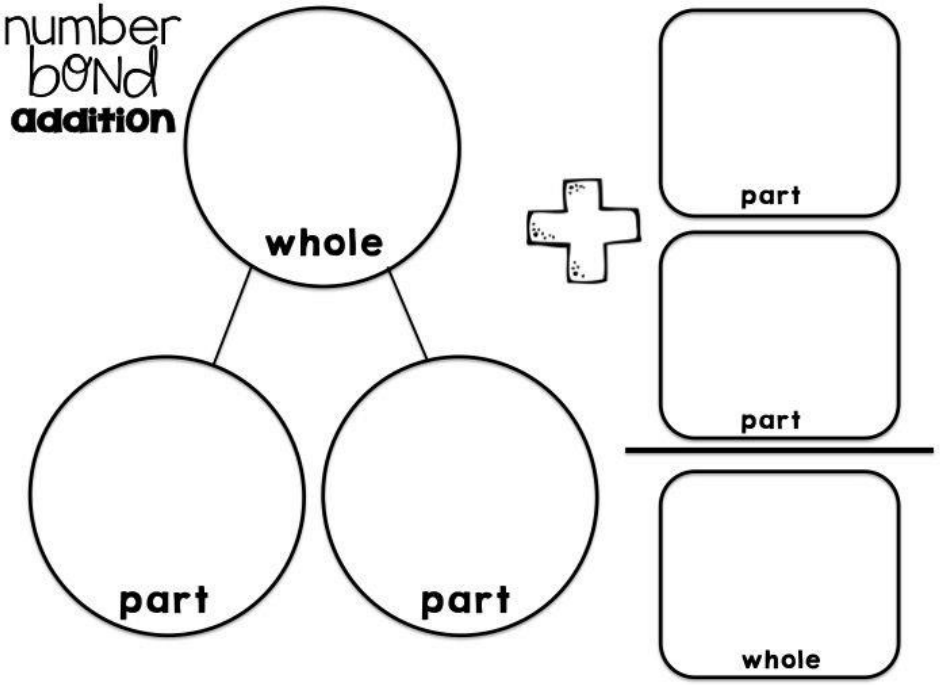

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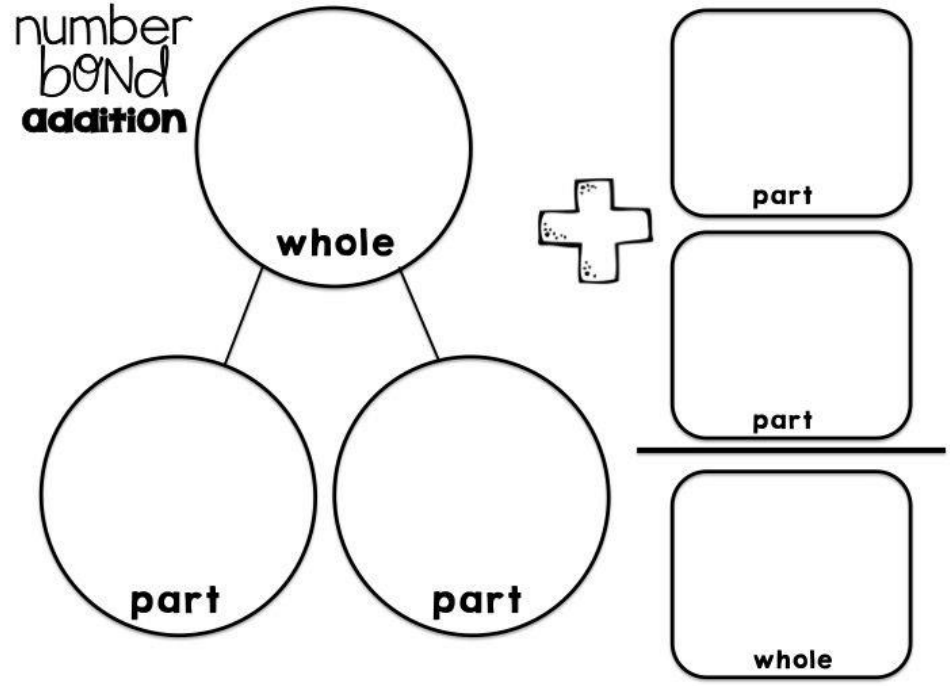

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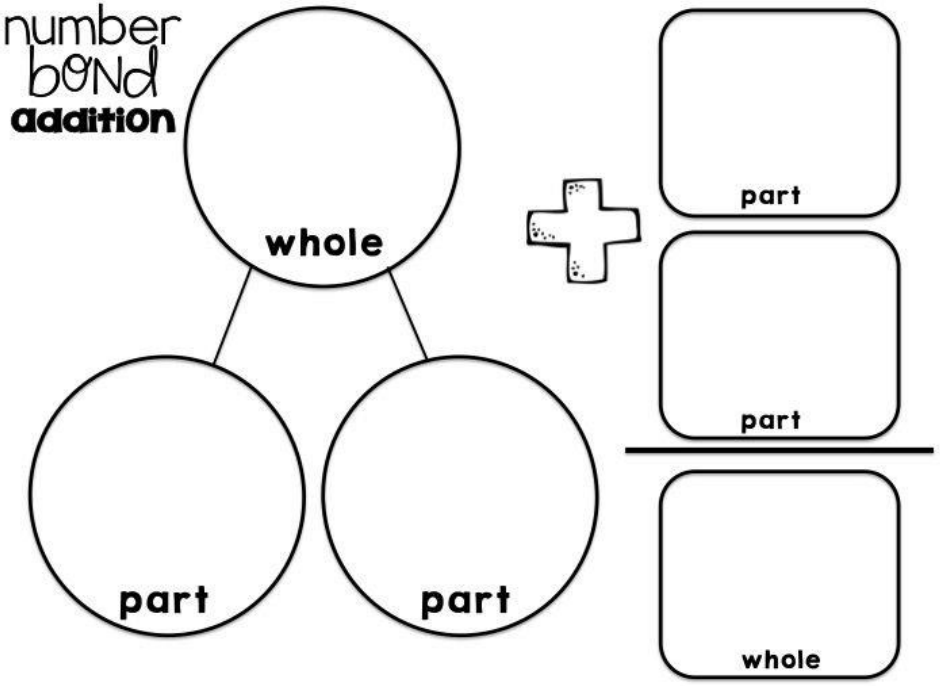
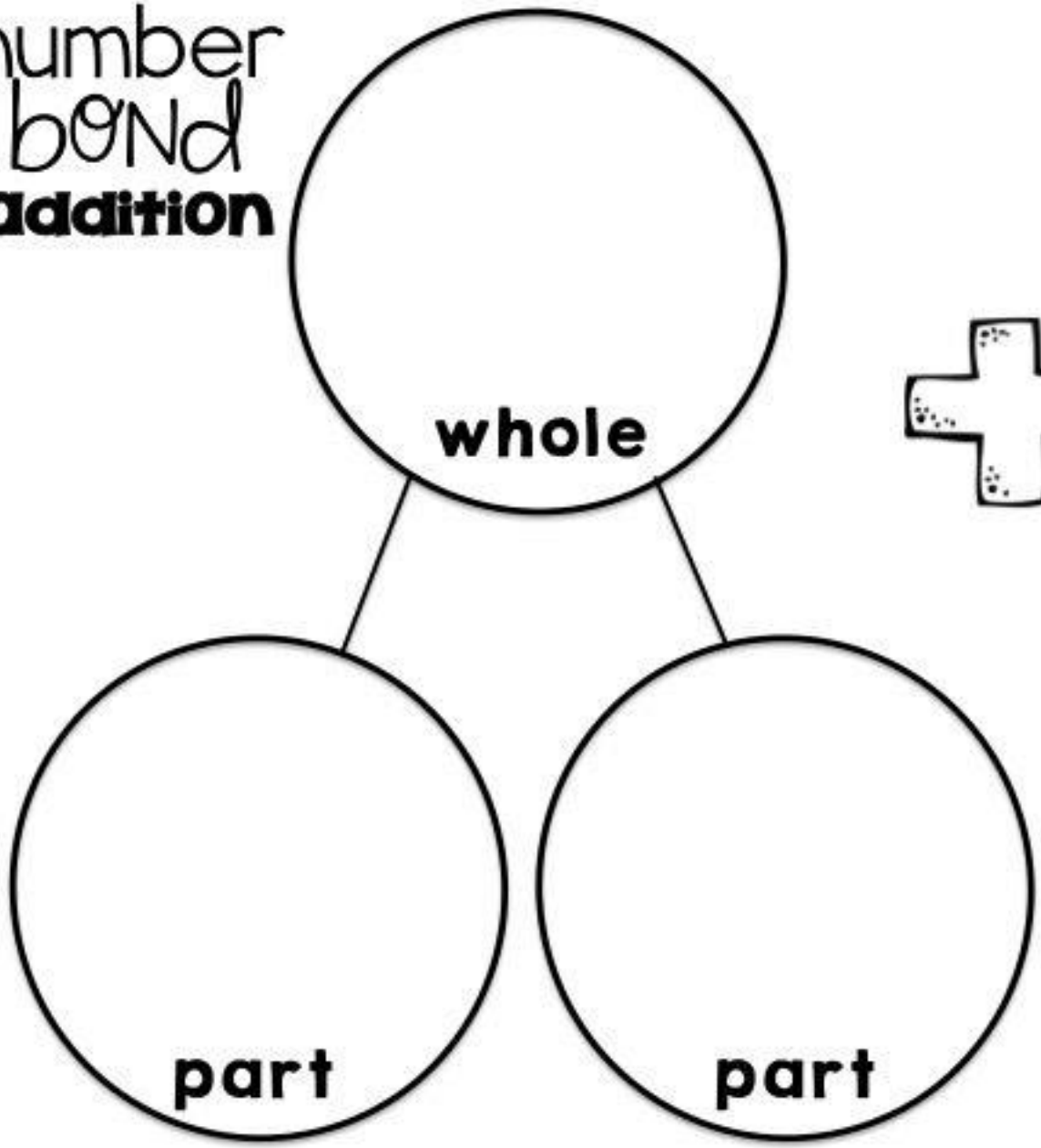
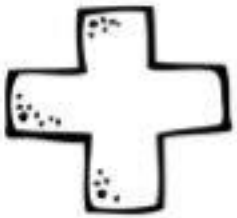


number bond addition





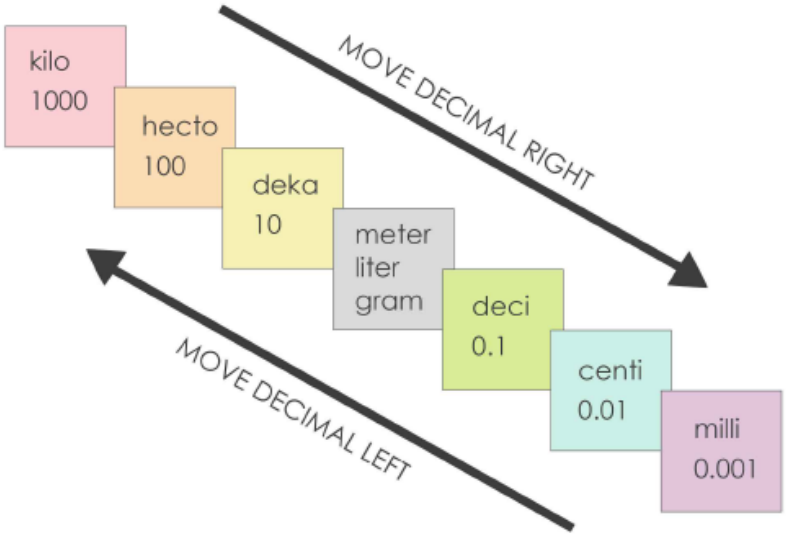
part

part

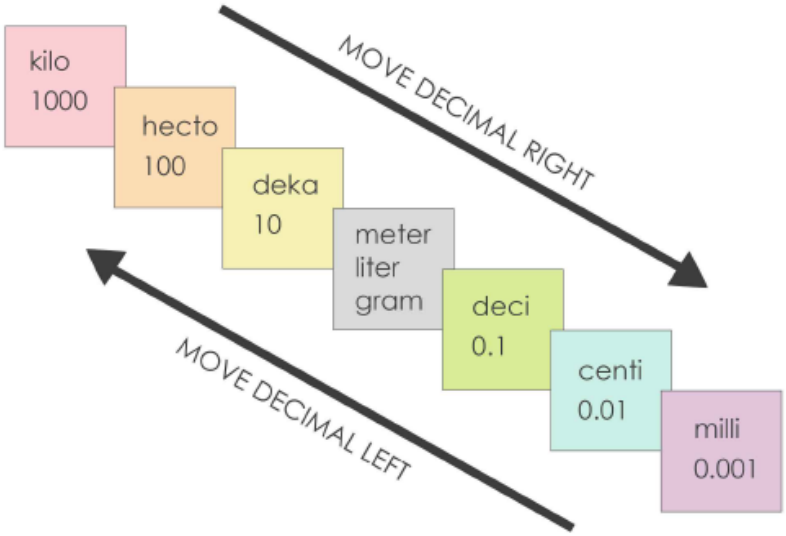
whole

Tina Peyerk © 2014

METRIC CONVERSION LADDER



METRIC CONVERSION LADDER



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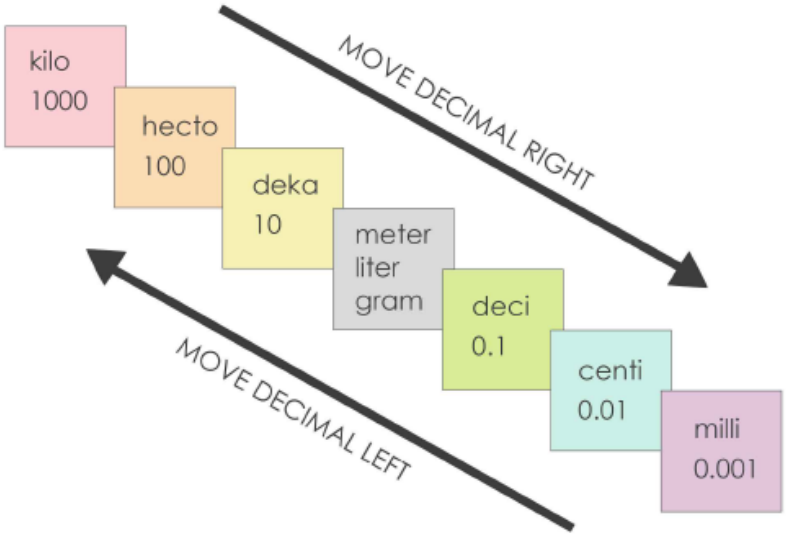

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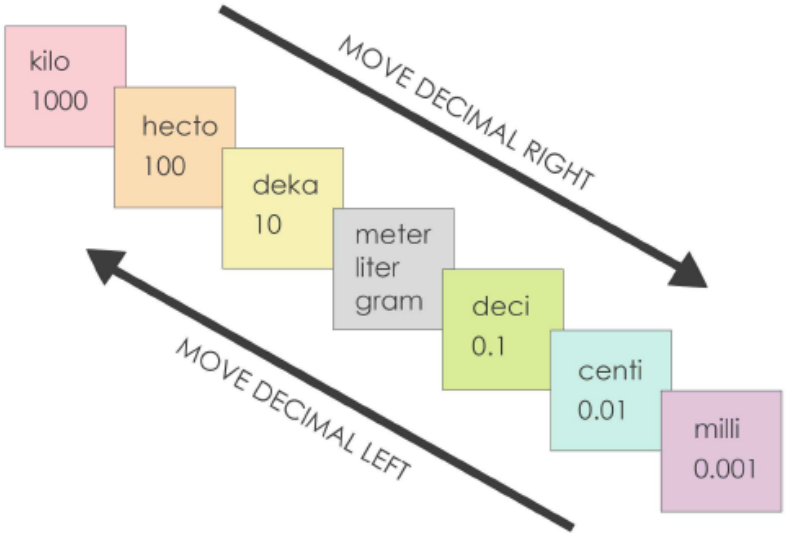
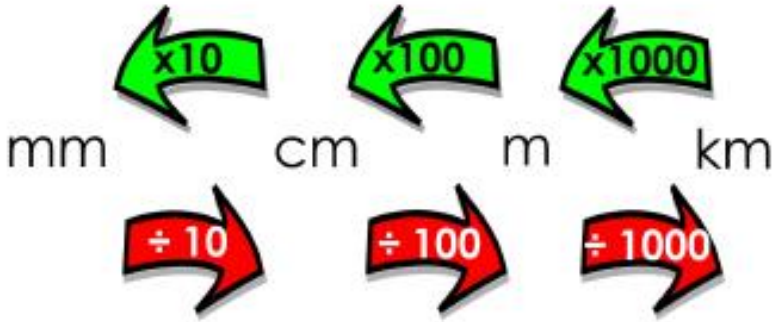


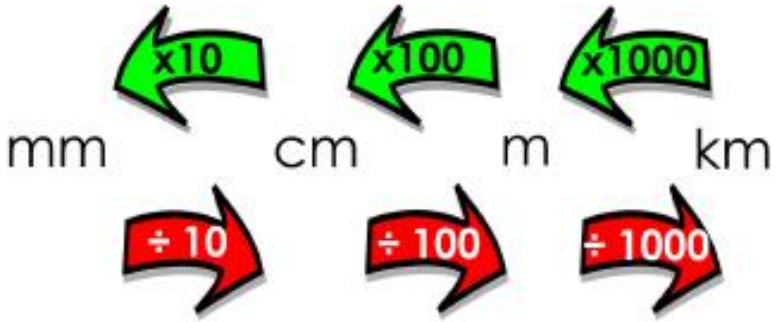
Metric Unit Conversion

mm Millimeters	cm Centimeters	m Meters	km Kilometers
10,000,000 mm	1,000,000 cm	1,000 m	1km



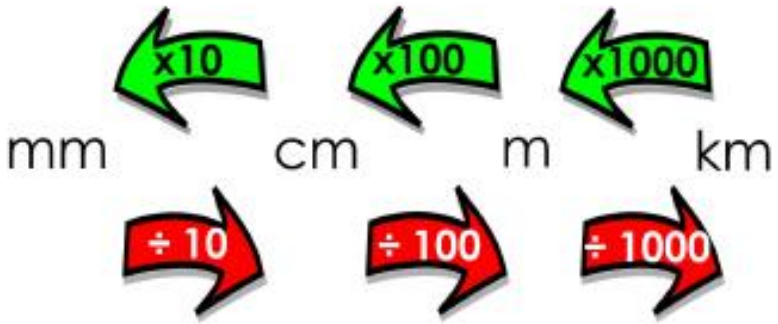
Metric Unit Conversion

mm Millimeters	cm Centimeters	m Meters	km Kilometers
10,000,000 mm	1,000,000 cm	1,000 m	1km



Metric Unit Conversion

mm Millimeters	cm Centimeters	m Meters	km Kilometers
10,000,000 mm	1,000,000 cm	1,000 m	1km



Metric Unit Conversion

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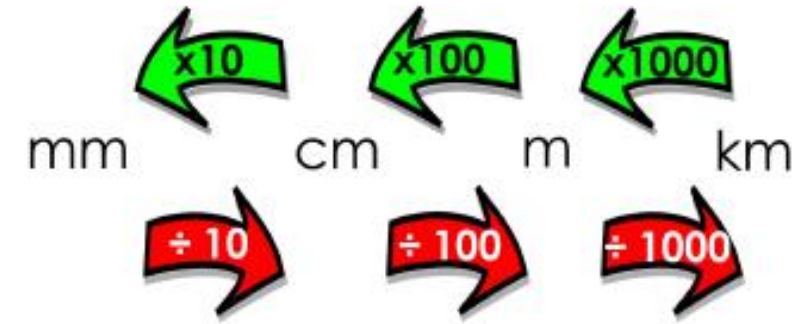
10,000,000 mm	1,000,000 cm	1,000 m	1km



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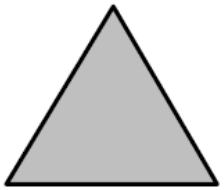
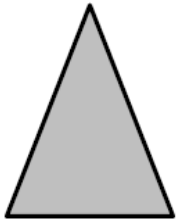
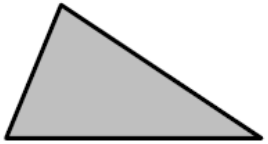
Classifying Triangles by their Sides



Equilateral
All sides are the same length

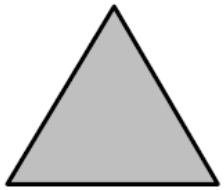


Isosceles
Two sides are the same length

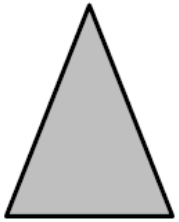


Scalene
All sides are different lengths

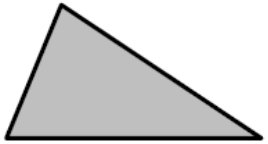
Classifying Triangles by their Sides



Equilateral
All sides are the same length

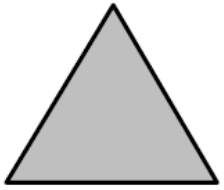


Isosceles
Two sides are the same length



Scalene
All sides are different lengths

Classifying Triangles by their Sides



Equilateral
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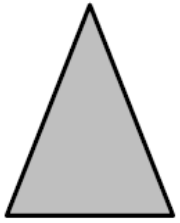

Isosceles
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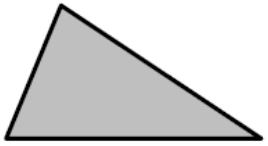
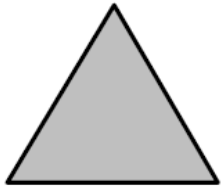
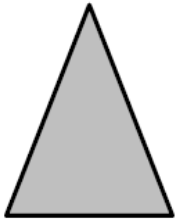


Scalene
All sides are different lengths

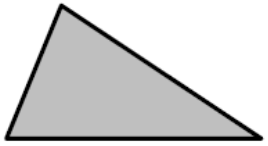
Classifying Triangles by their Sides



Equilateral
All sides are the same length

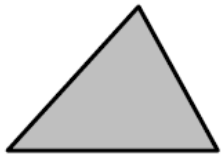


Isosceles
Two sides are the same length

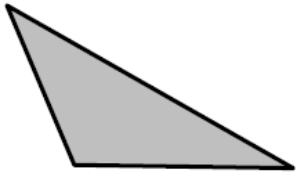


Scalene
All sides are different lengths

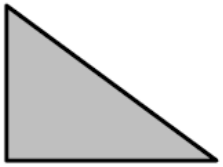
Classifying Triangles by their Angles



Acute
All angles are acute (less than 90 degrees)

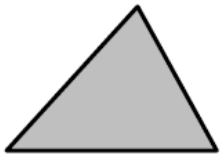


Obtuse
One obtuse angle (greater than 90 degrees)

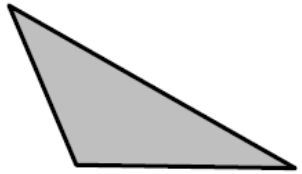


Right
One right angle (equal to 90 degrees)

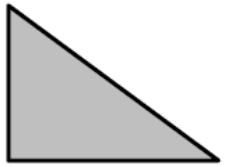
Classifying Triangles by their Angles



Acute
All angles are acute (less than 90 degrees)

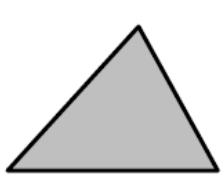


Obtuse
One obtuse angle (greater than 90 degrees)

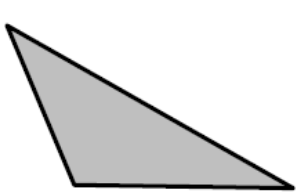


Right
One right angle (equal to 90 degrees)

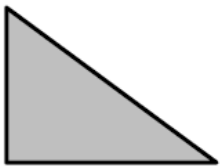
Classifying Triangles by their Angles



Acute
All angles are acute (less than 90 degrees)

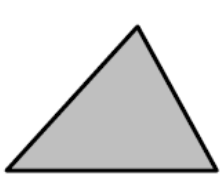


Obtuse
One obtuse angle (greater than 90 degrees)

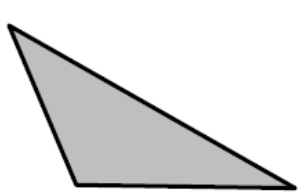


Right
One right angle (equal to 90 degrees)

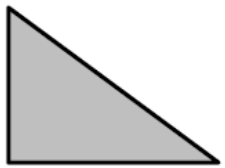
Classifying Triangles by their Angles



Acute
All angles are acute (less than 90 degrees)



Obtuse
One obtuse angle (greater than 90 degrees)



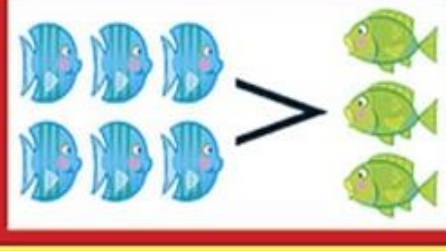
Right
One right angle (equal to 90 degrees)

Greater than

Less than

Equal to

Greater than



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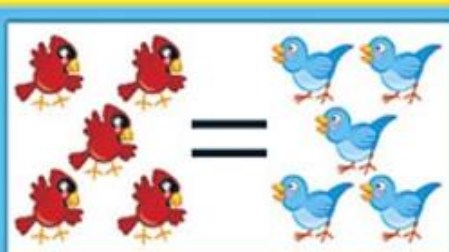

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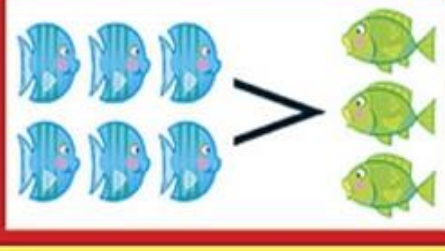

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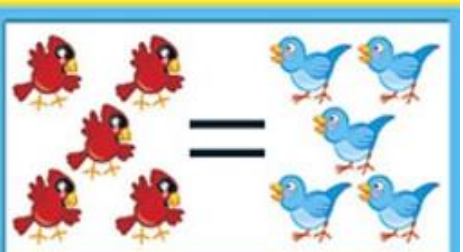

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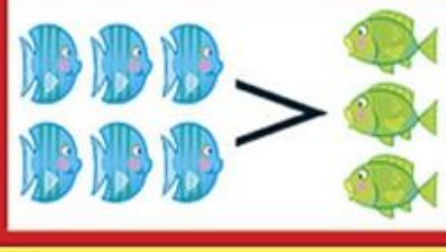

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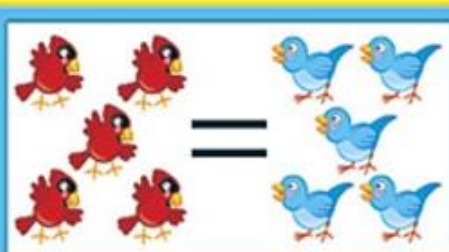

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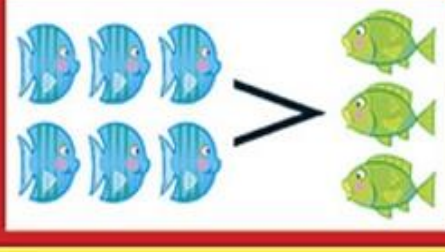

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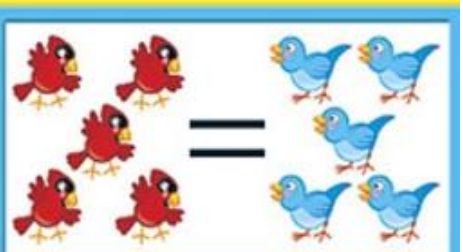

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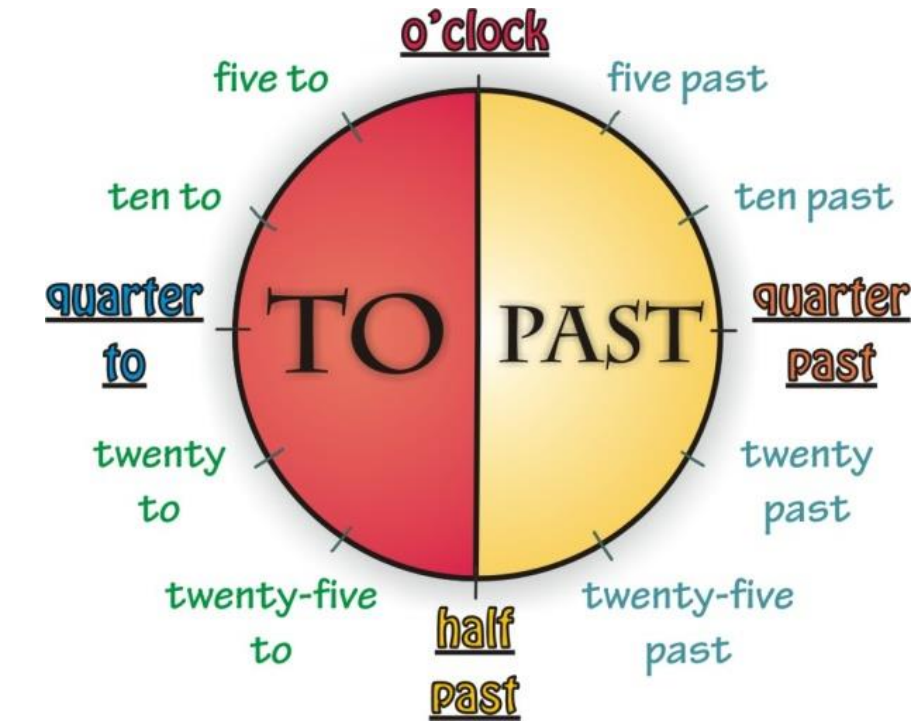
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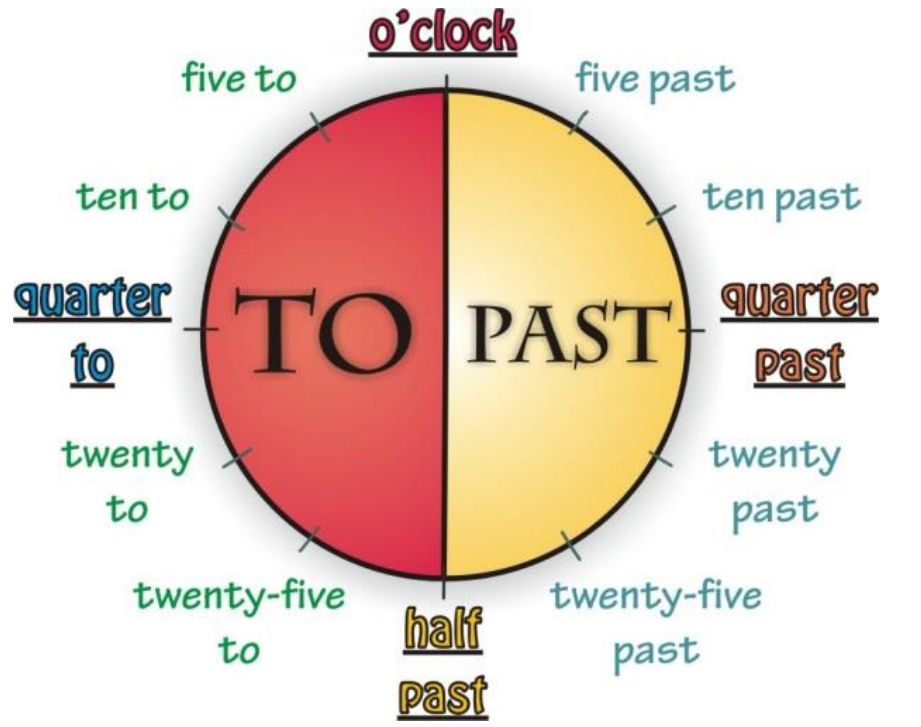
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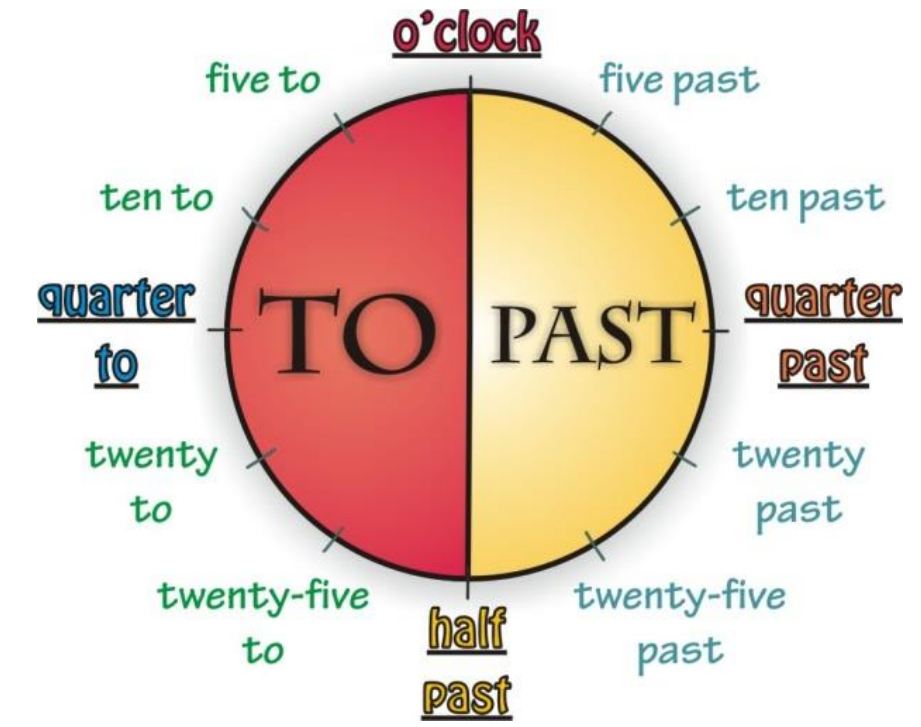
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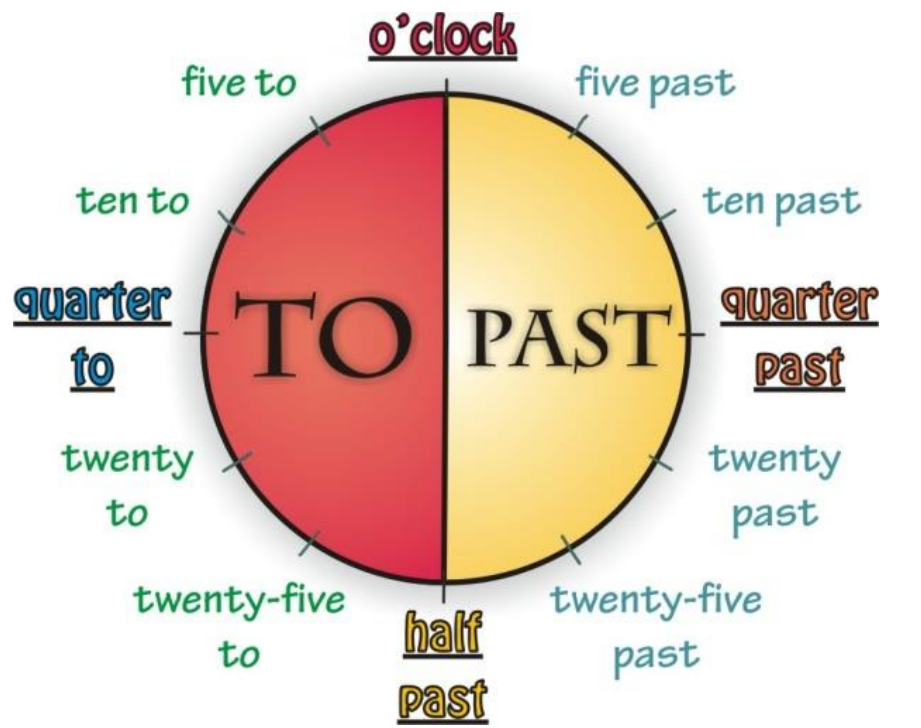
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Quadrilaterals

Square

4 equal sides
4 right angles
Opposite sides are parallel.

Rectangle

4 right angles
Opposite sides are parallel.
Opposite sides are equal length.

Rhombus

4 equal sides
Opposite sides are parallel.
2 pair of parallel sides.

Trapezoid

Only 1 pair of opposite sides are parallel.

Parallelogram

Opposite sides are parallel.
2 pair of parallel sides.

Quadrilaterals

Square

4 equal sides
4 right angles
Opposite sides are parallel.

Rectangle

4 right angles
Opposite sides are parallel.
Opposite sides are equal length.

Rhombus

4 equal sides
Opposite sides are parallel.
2 pair of parallel sides.

Trapezoid

Only 1 pair of opposite sides are parallel.

Parallelogram

Opposite sides are parallel.
2 pair of parallel sides.

Quadrilaterals

Square

4 equal sides
4 right angles
Opposite sides are parallel.

Rectangle

4 right angles
Opposite sides are parallel.
Opposite sides are equal length.

Rhombus

4 equal sides
Opposite sides are parallel.
2 pair of parallel sides.

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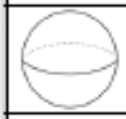
Solides	Nombre de faces	Nombre de sommets	Nombre d'arêtes
cube	6	8	12
prisme rectangulaire	6	8	12
prisme triangulaire	5	6	9
 sphère	1 surface courbe	0	0
cylindre	2 faces planes et 1 surface courbe	0	2
pyramide à base carrée	5	5	8
pyramide à base triangulaire	4	4	6
cône	1 face plane et 1 surface courbe	1	1

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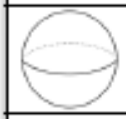 sphère	1 surface courbe	0	0
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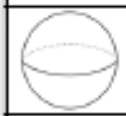 sphère	1 surface courbe	0	0
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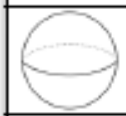 sphère	1 surface courbe	0	0
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Draw a picture	Word and Definition
	_____

Word or Concept	Characteristics	Example	Give it a try!

Word:	Definition:
Example:	Non-Example:

Word:	Definition:
Example:	Non-Example:

Word:	Definition:
Example:	Non-Example:

Word:	Definition:
Example:	Non-Example:

Concept	How to Solve - Steps	Example

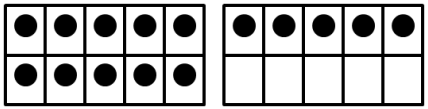
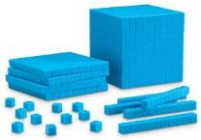
We do together	I do by myself

Concept	How to Solve - Steps	Example

We do together	I do by myself

Word or Concept:	**Definition & Characteristics:** _____ _____ _____ _____
Example:	**Non-Example:**

My Strategies

Use a ten frame	
Use tally marks	
Use base ten blocks	
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Draw a picture	
Guess and check	
Read it again	
Ask for help	

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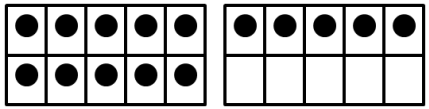
Use a ten frame	
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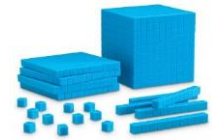
Use base ten blocks	
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C — **Circle key numbers & units**

What do I know?

U — **Underline the question**

What am I being asked to solve?

B — **Box math "action" words**

Am I going to add, subtract, multiply or divide?

E — **Evaluate and eliminate**

What steps do I take?
What information don't I need?

S — **Show your work and check**

Does my answer make sense?
How can I double check?

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READ the problem.

UNDERLINE the key words and numbers.

CROSS OUT useless information.

CHOOSE the right operation(s).

SOLVE the problem.

Write out the sum and do the calculation(s).

ANSWER the question.

Use the answers from your calculation to answer the question.

What were you meant to find out?

CHECK your work.

Use the inverse if possible, to check through your calculation(s).

Have you answered the question?

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Steps to Solve a Problem: UPS Check!

Understand
Read the problem.

What am I looking for?
[Bracket the question]

What do I know?
Circle the important numbers.
Underline labels

Plan
Choose a strategy.
- Draw a Picture or Make a Table

	JUG	SUG	CUG	JEG	SEG	SEG
Operation?	+	−	−	×	÷	÷

Solve
Show all your work.

Label your answer.

3
+5
8 crayons

✓Check
Explain & Justify

Is your answer is REASONABLE?

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