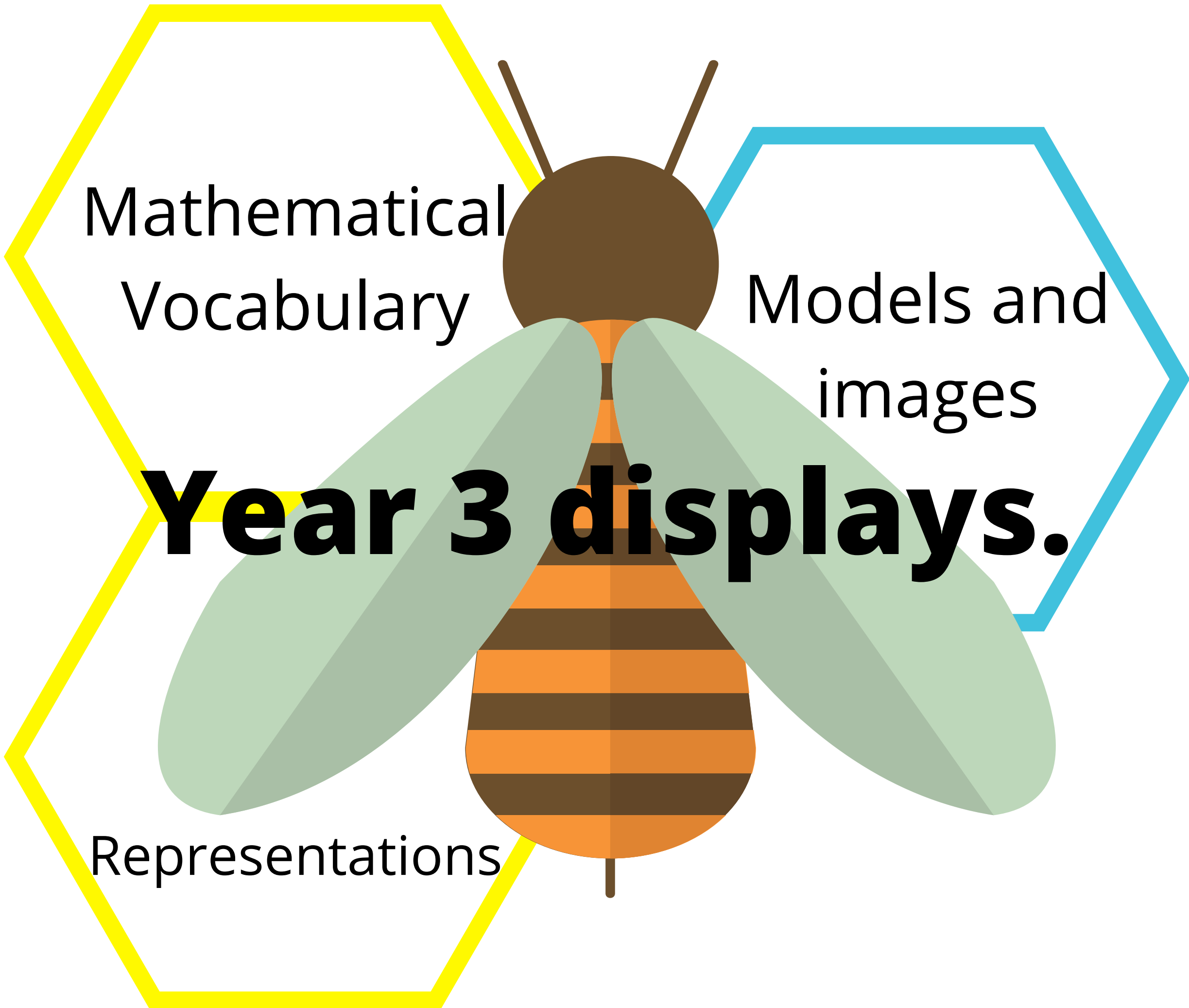




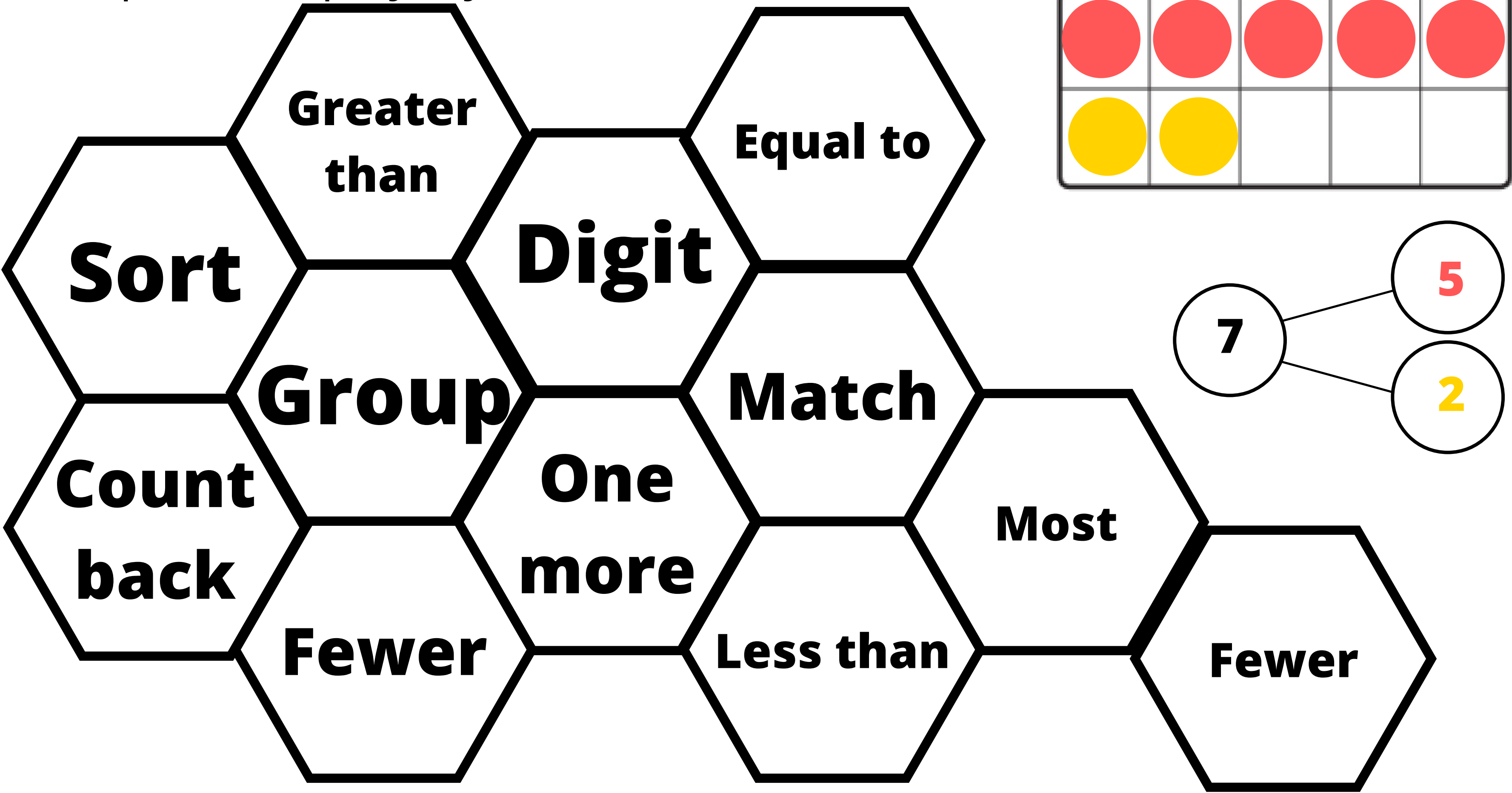
Mathematical
Vocabulary

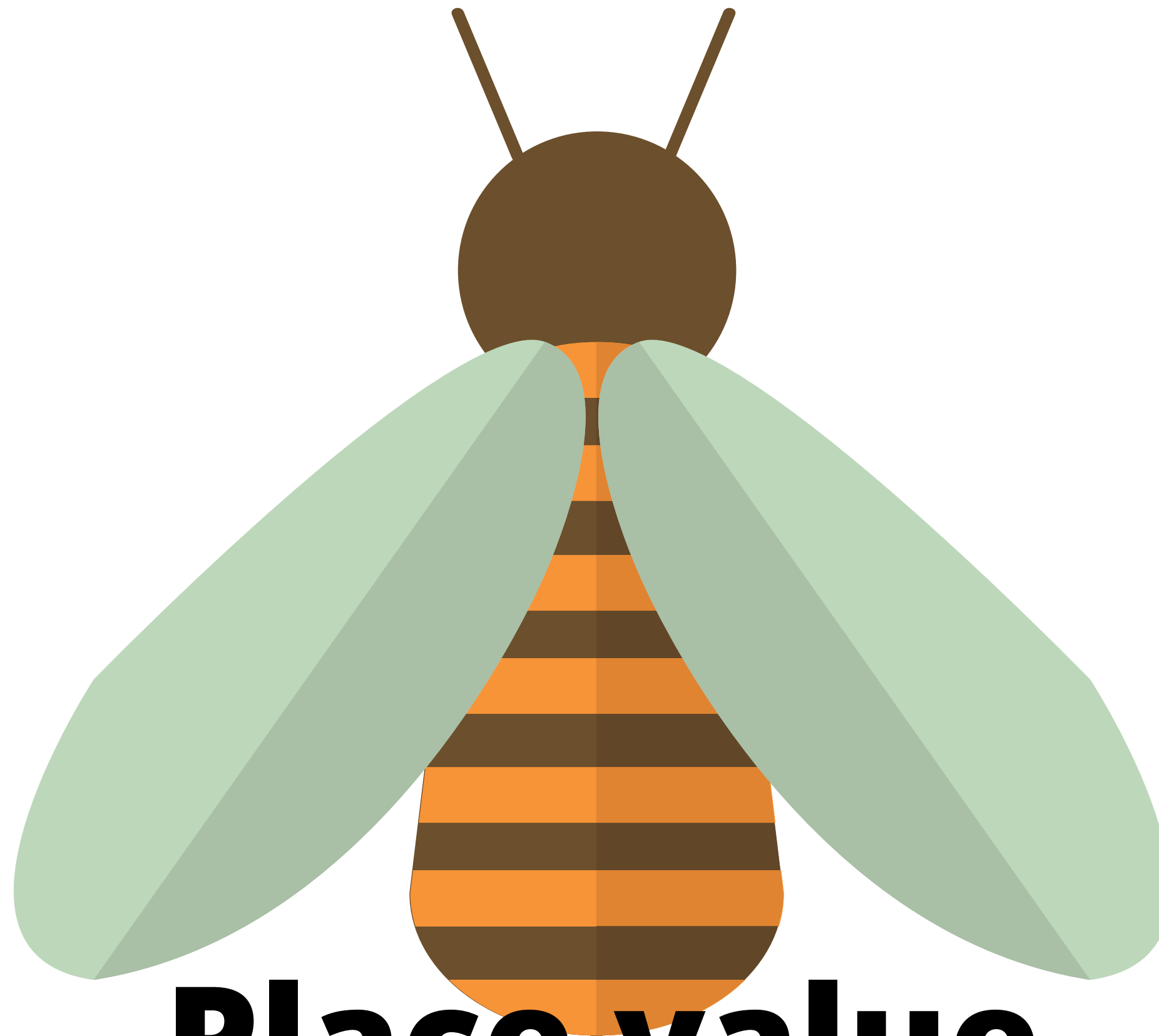
Models and
images

Year 3 displays.

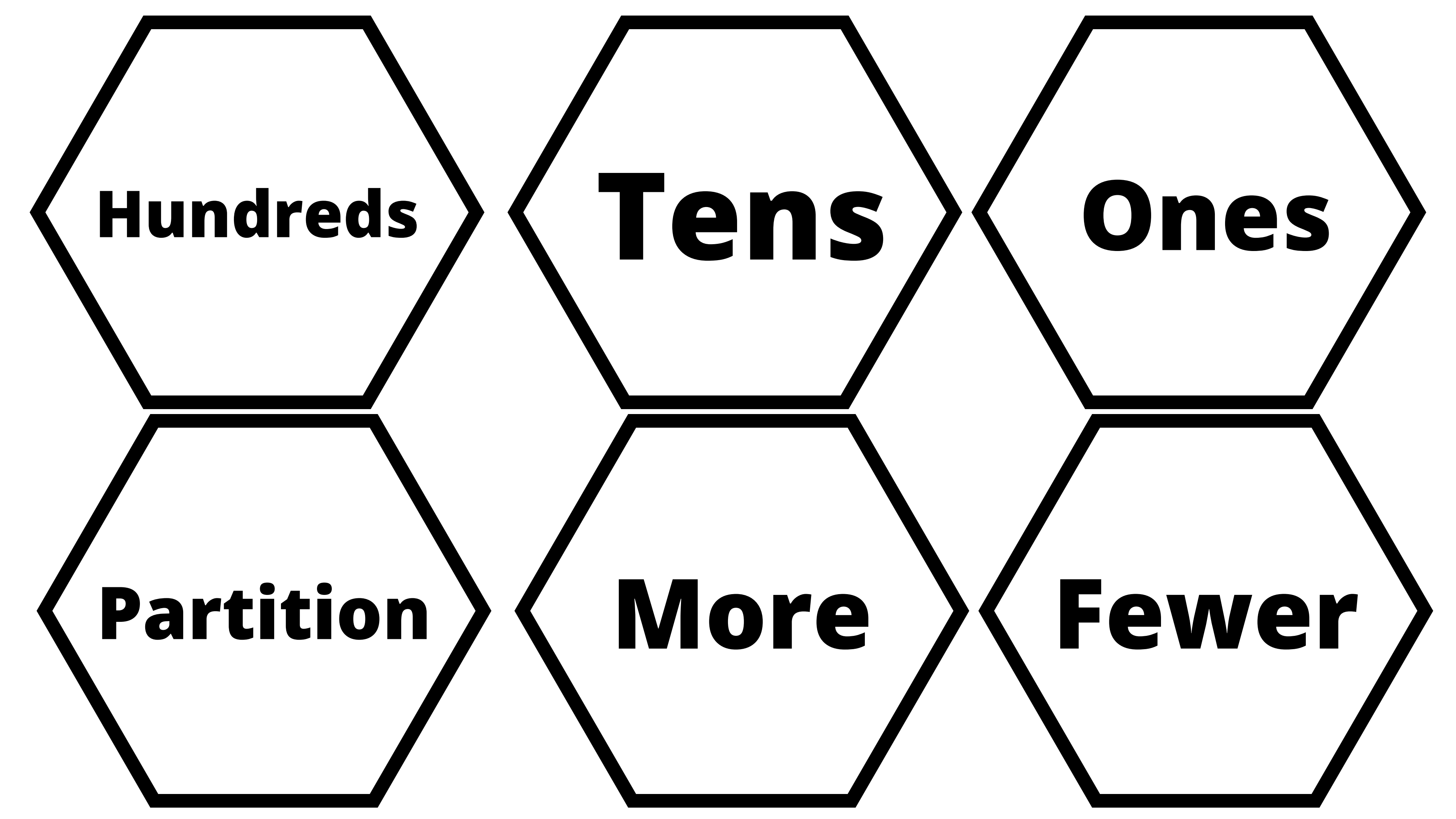
Representations

Example of display layout





Place value



Hundreds

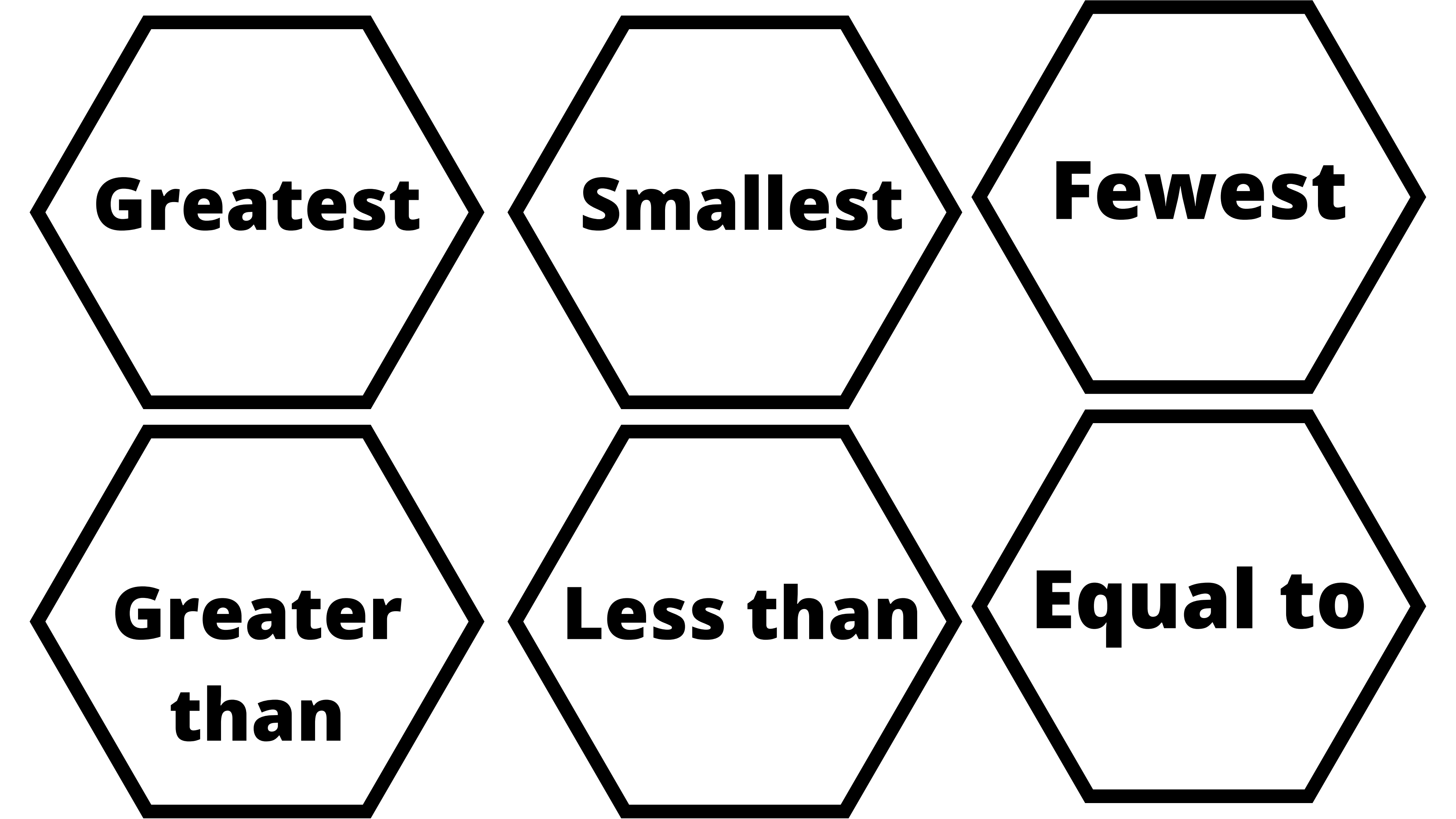
Tens

Ones

Partition

More

Fewer



Greatest

Smallest

Fewest

**Greater
than**

Less than

Equal to

100

100

100

100

100

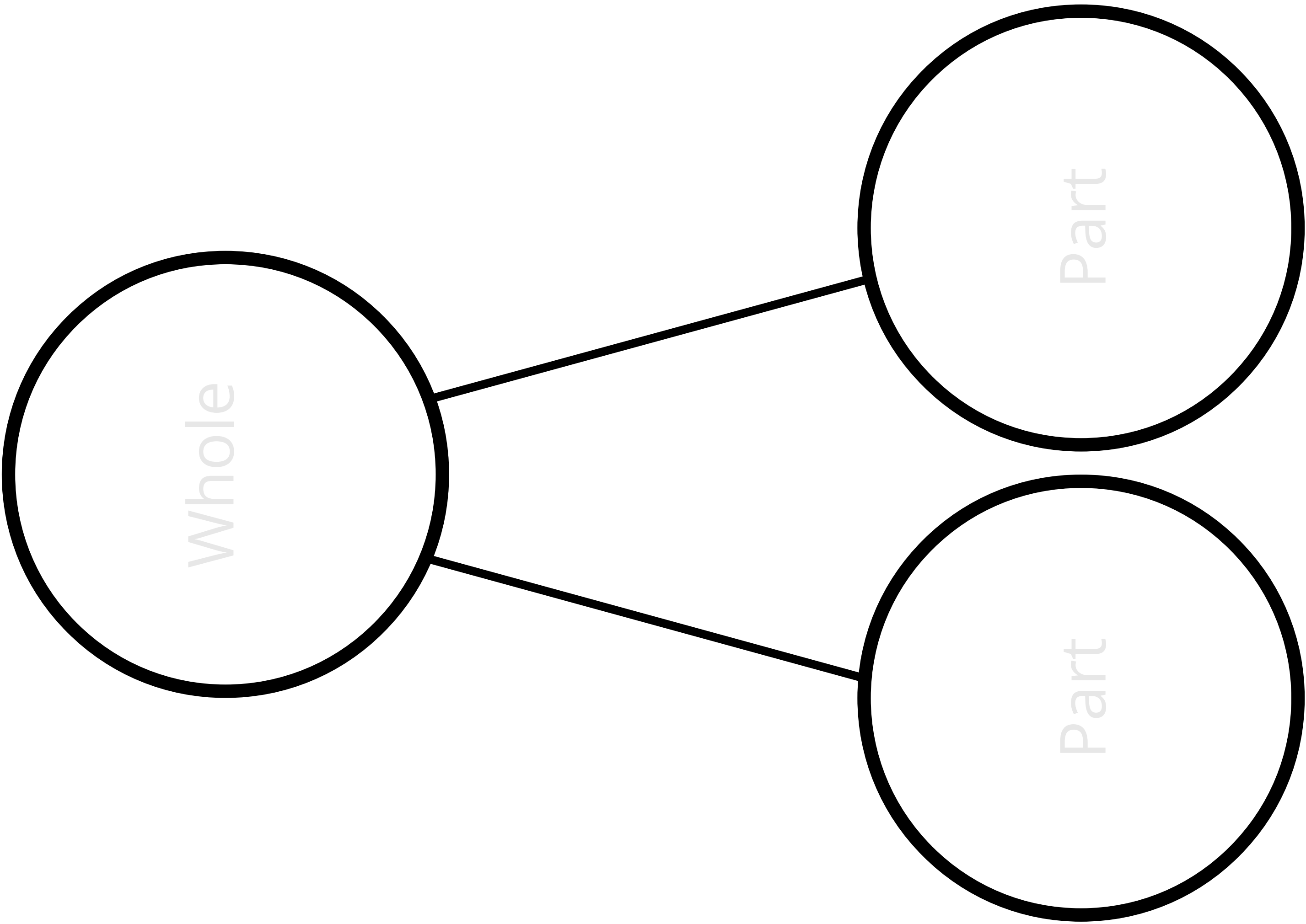
100

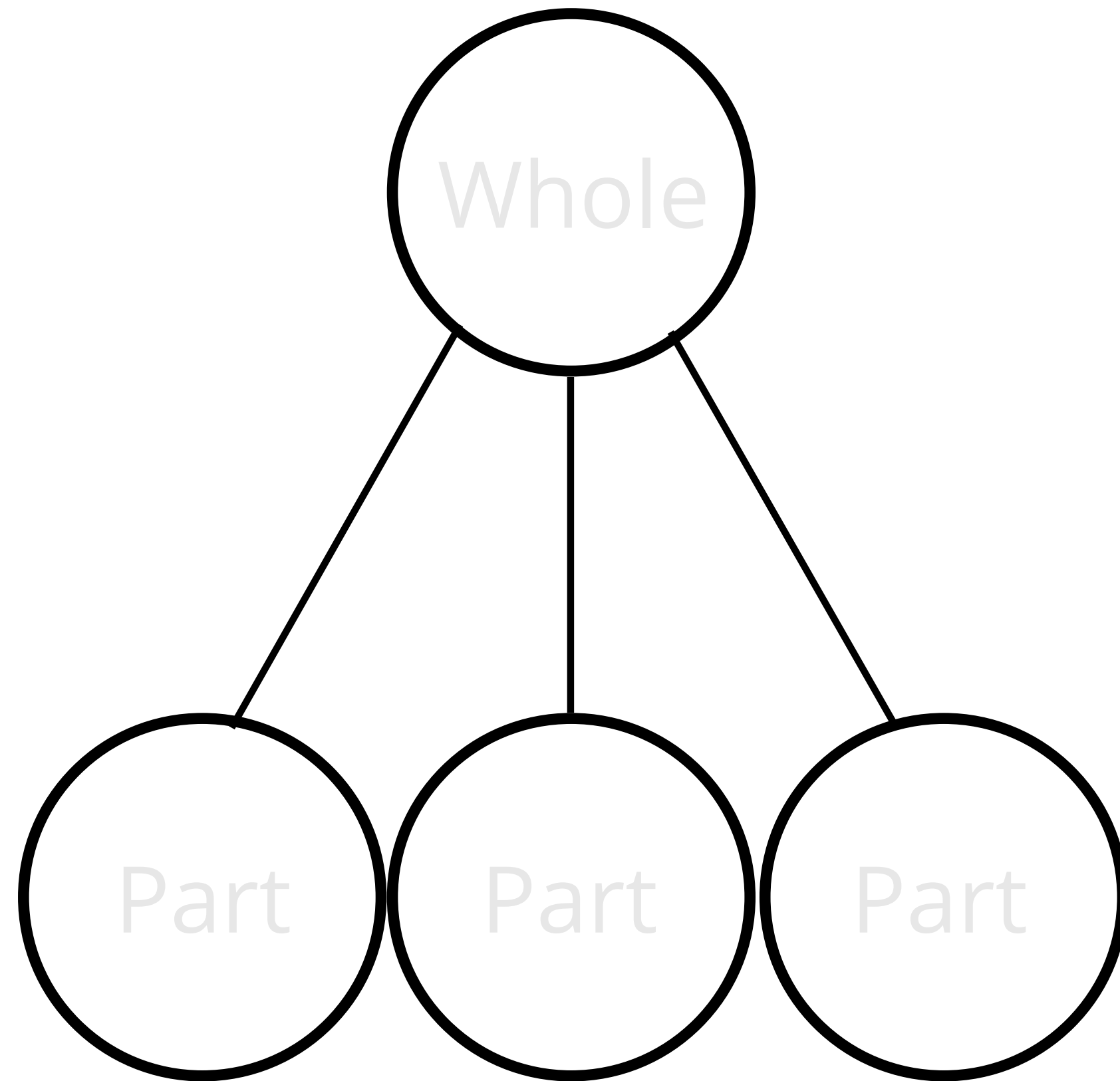
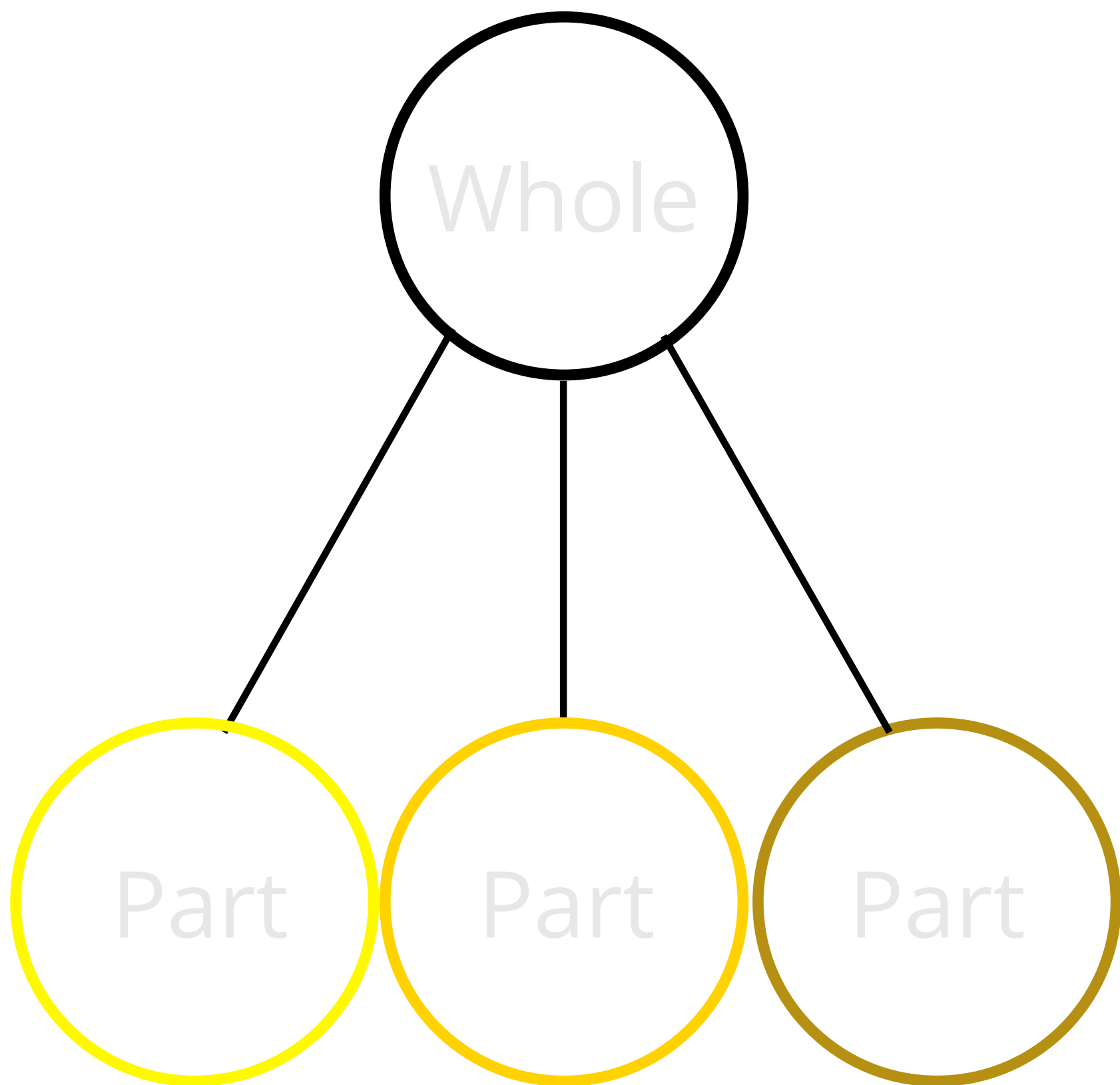
100

100

100

100





Hundreds	Tens	Ones
Part	Part	Part

Use > < or =

Hundreds	Tens	Ones
Part	Part	Part

Hundreds	Tens	Ones
Part	Part	Part

100	100	100	100	100
100	100	100	100	100

100	100	100	100	100
100	100	100	100	100

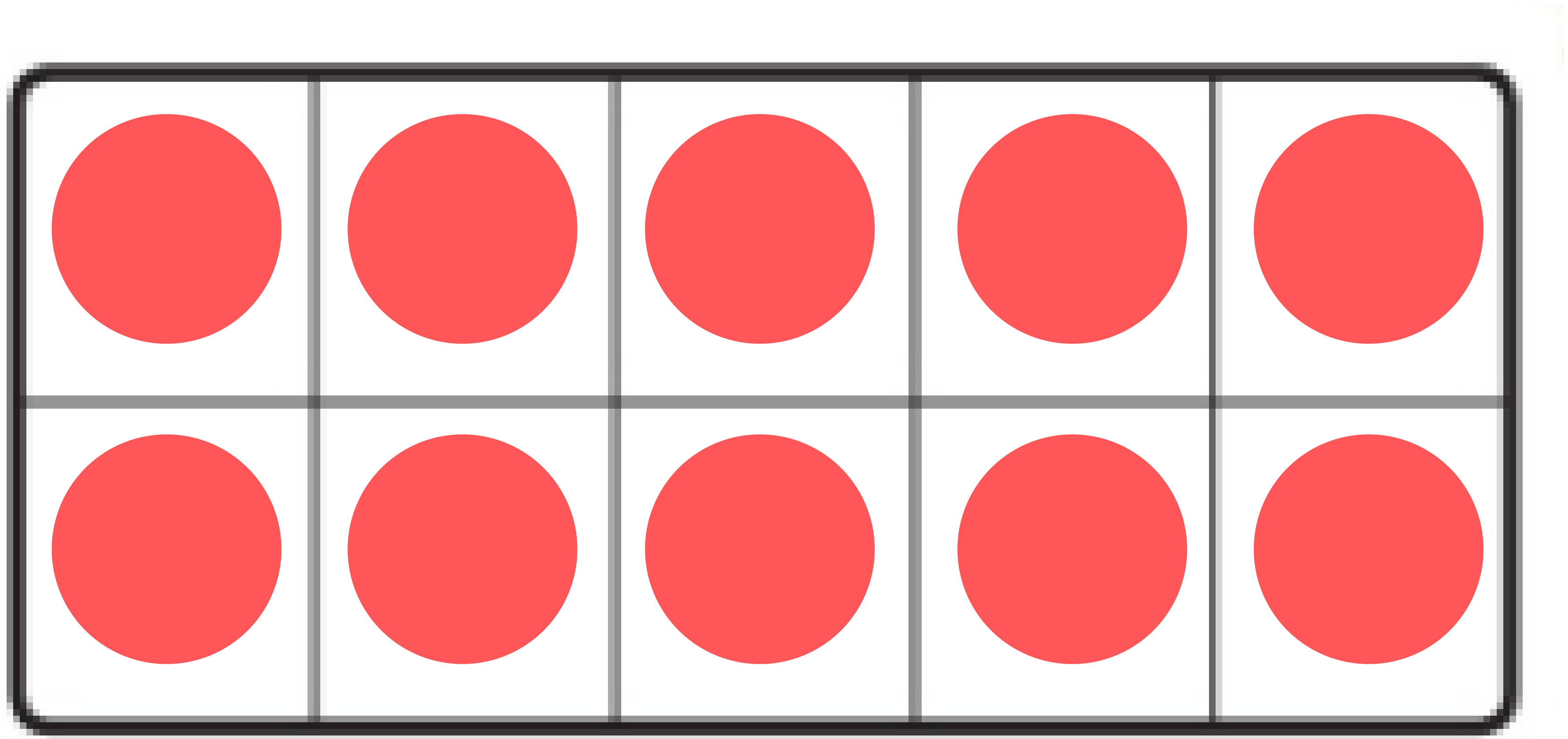
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100	100	100	100	100

100	100	100	100	100
100	100	100	100	100

100	100	100	100	100
100	100	100	100	100

100	100	100	100	100
100	100	100	100	100

100	100	100	100	100
100	100	100	100	100



100	200	300	400	500	600	700	800	900	1000
-----	-----	-----	-----	-----	-----	-----	-----	-----	------

100		300	400	500	600	700	800	900	1000
-----	--	-----	-----	-----	-----	-----	-----	-----	------

100	200		400	500	600	700	800	900	1000
-----	-----	--	-----	-----	-----	-----	-----	-----	------

100	200	300		500	600	700	800	900	1000
-----	-----	-----	--	-----	-----	-----	-----	-----	------

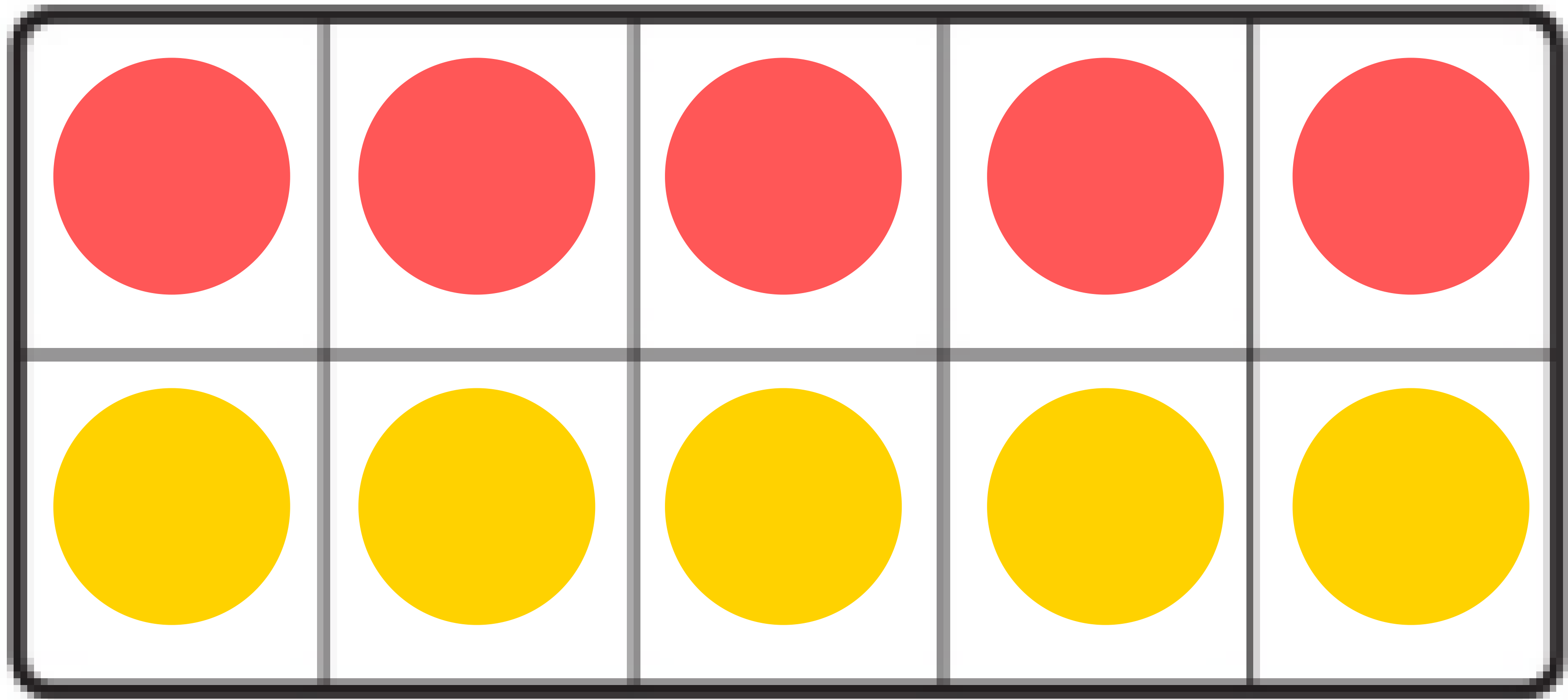
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-----	-----	-----	-----	--	-----	-----	-----	-----	------

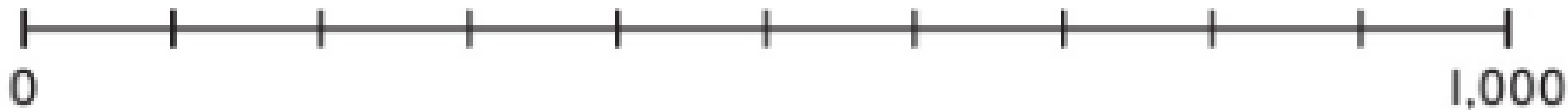
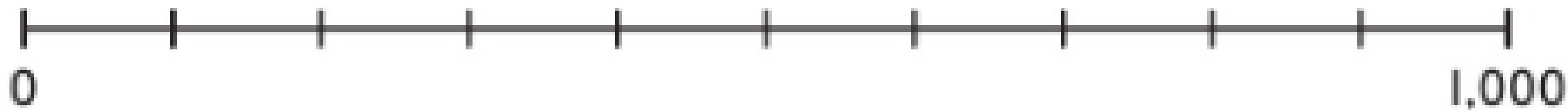
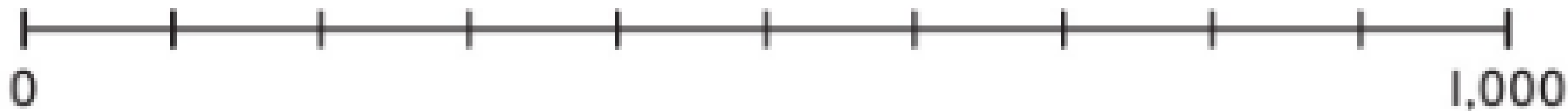
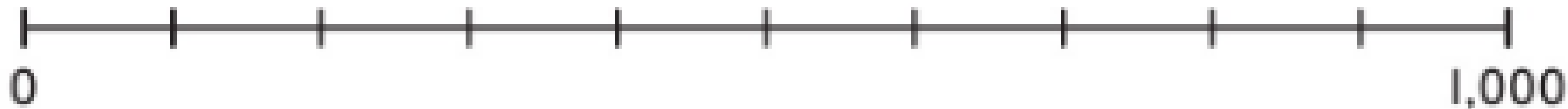
100	200	300	400	500		700	800	900	1000
-----	-----	-----	-----	-----	--	-----	-----	-----	------

100	200	300	400	500	600		800	900	1000
-----	-----	-----	-----	-----	-----	--	-----	-----	------

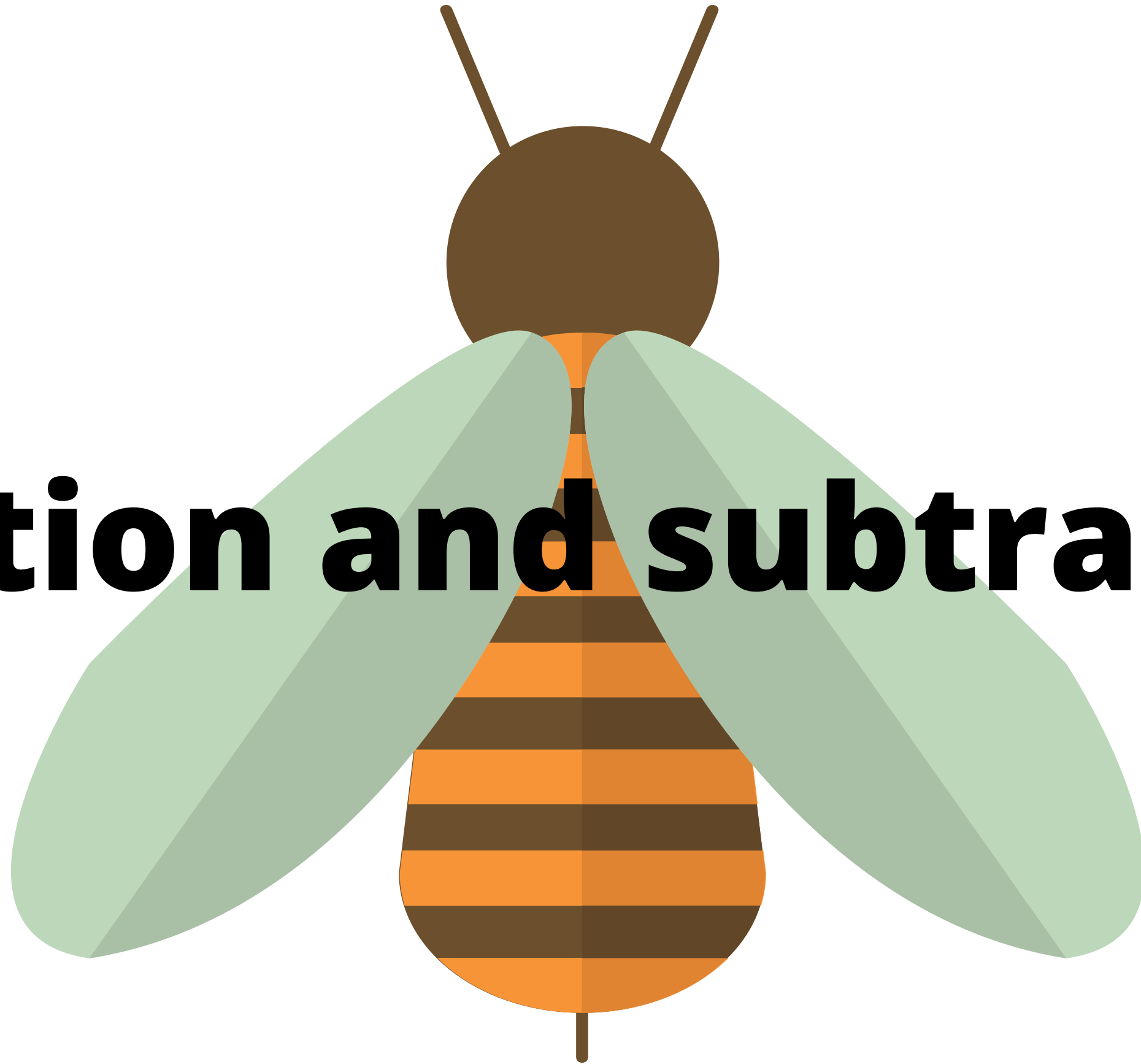
100	200	300	400	500	600	700		900	1000
-----	-----	-----	-----	-----	-----	-----	--	-----	------

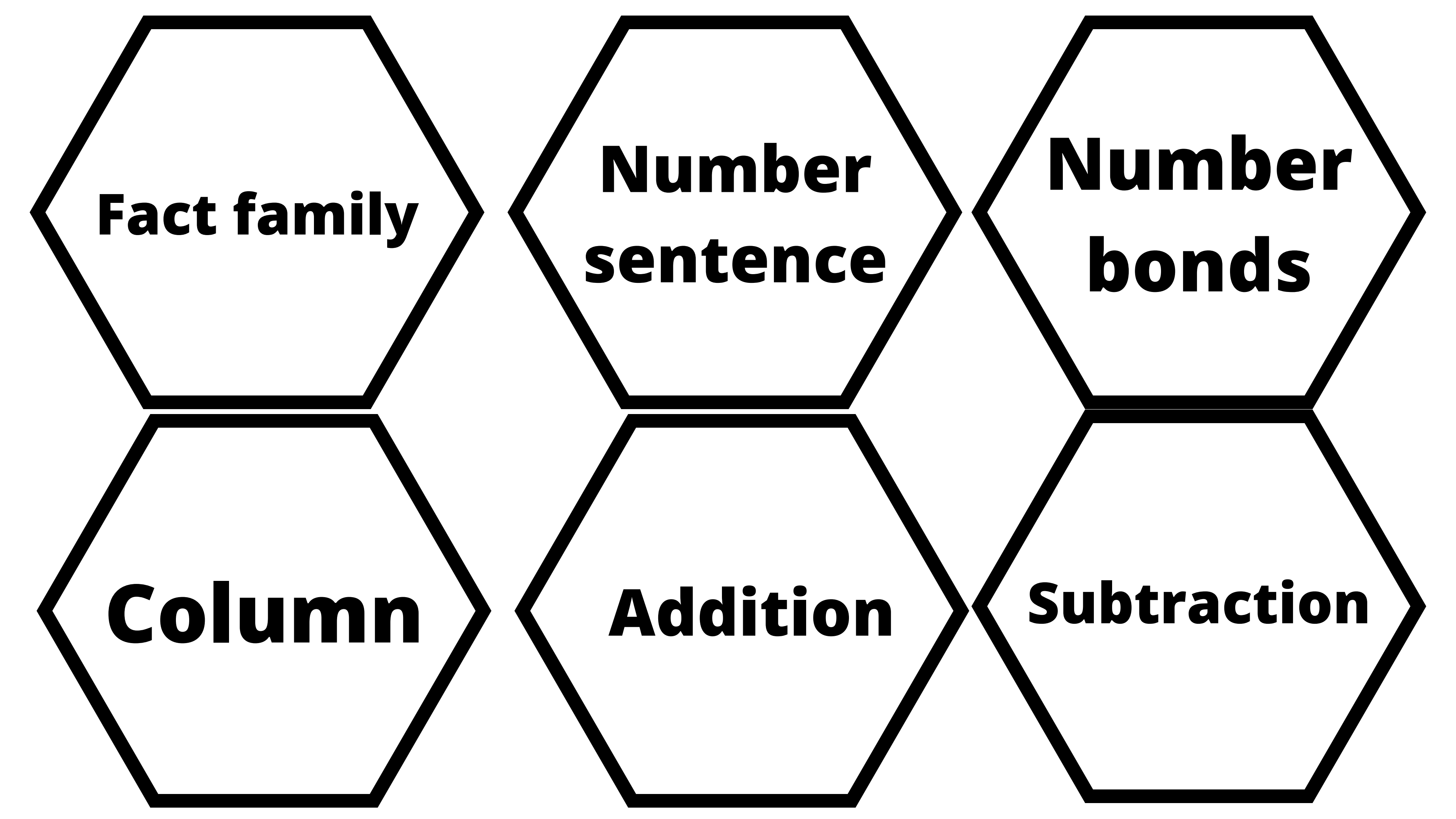
100	200	300	400	500	600	700	800		1000
-----	-----	-----	-----	-----	-----	-----	-----	--	------





Addition and subtraction





Fact family

**Number
sentence**

**Number
bonds**

Column

Addition

Subtraction

Total

**Mental
method**

**Column
method**

Exchange

Whole

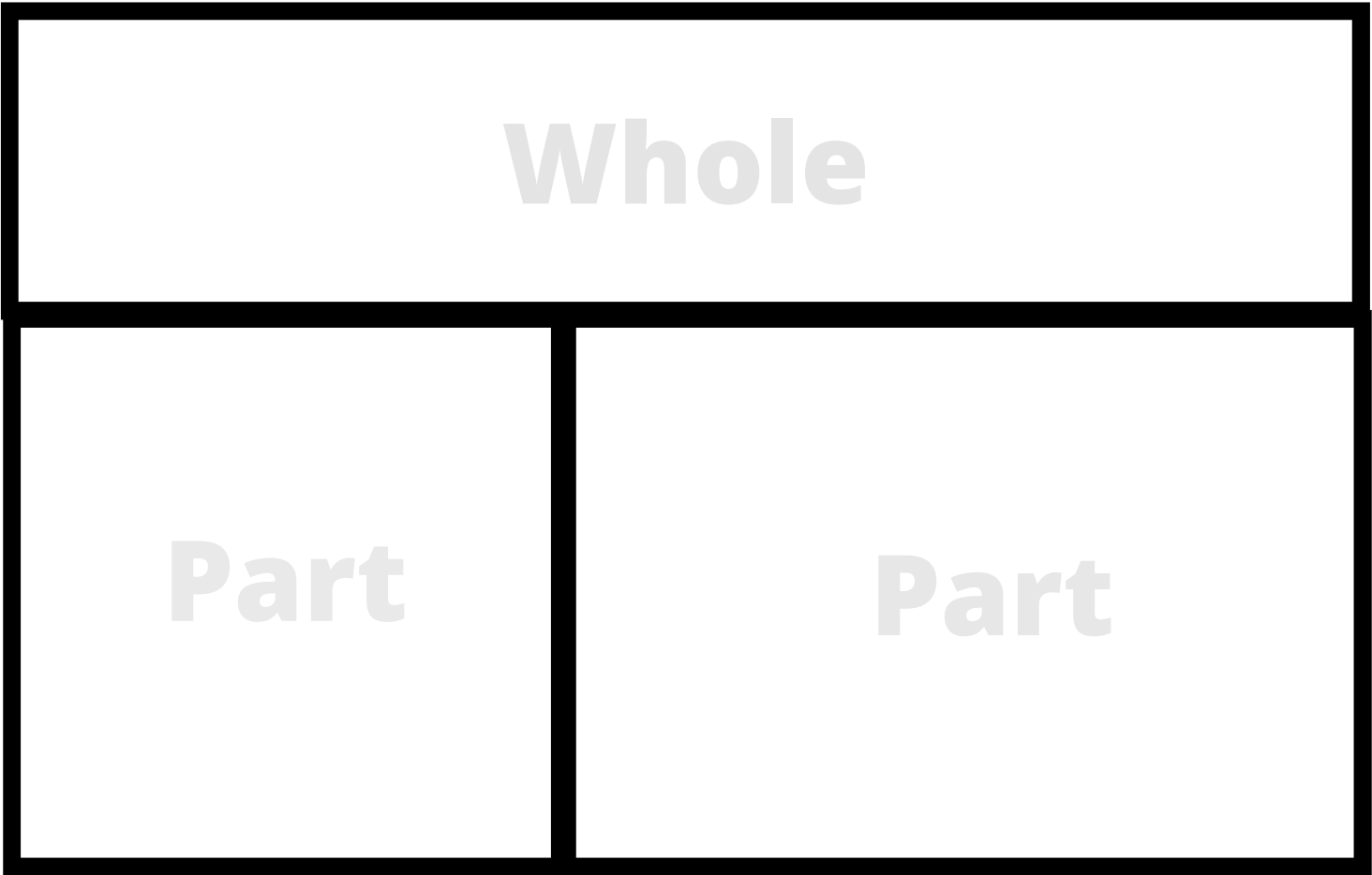
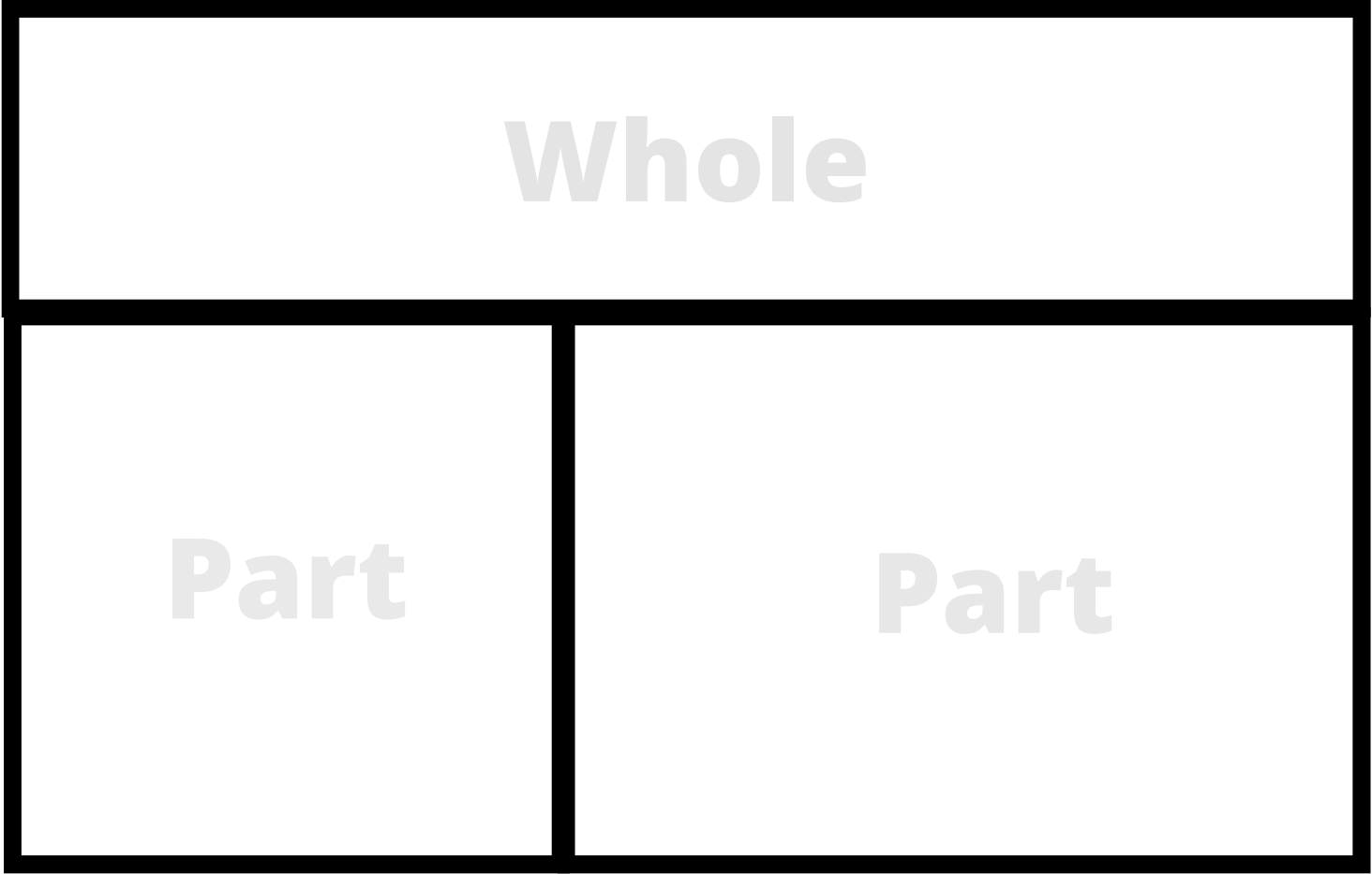
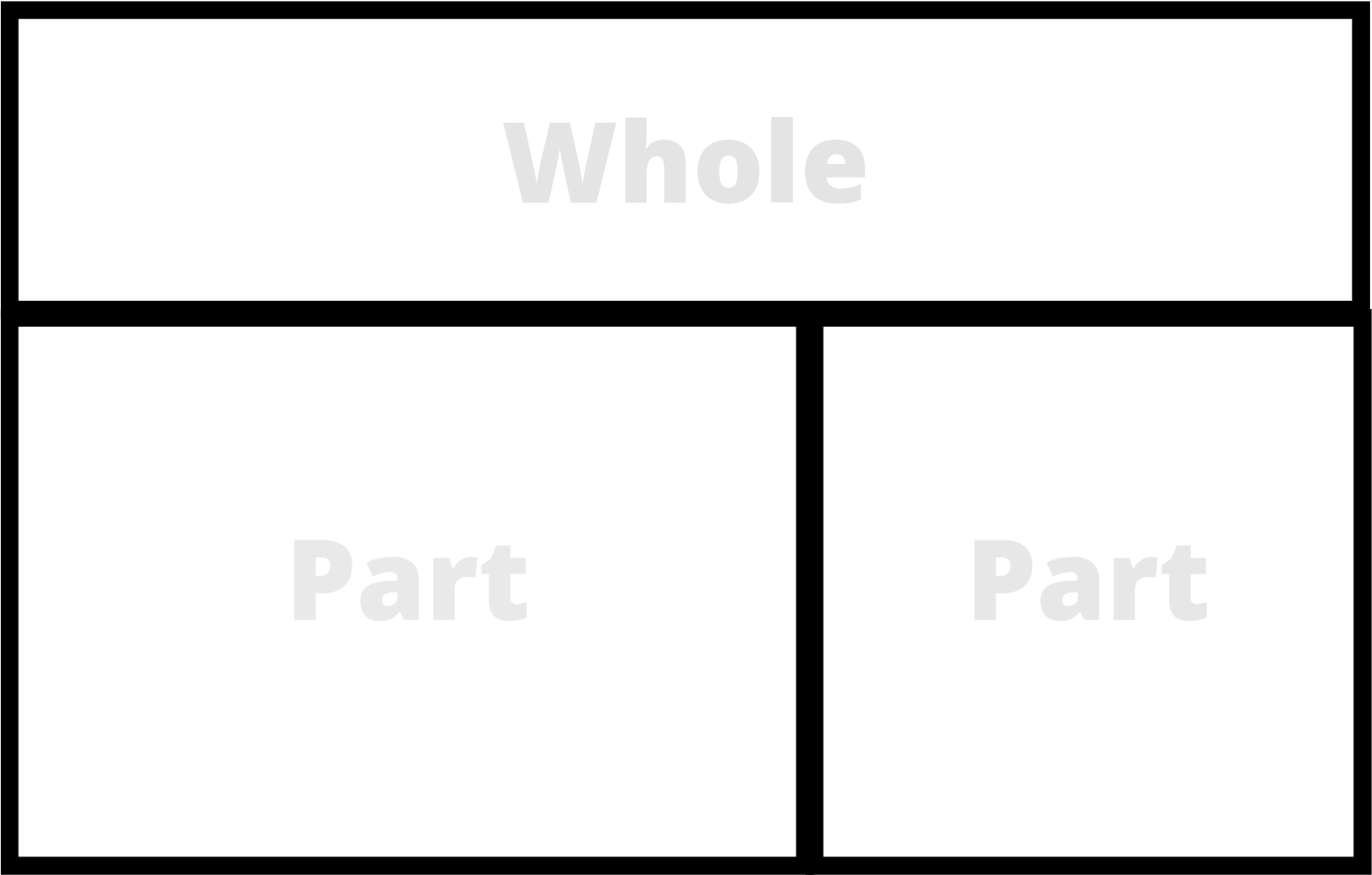
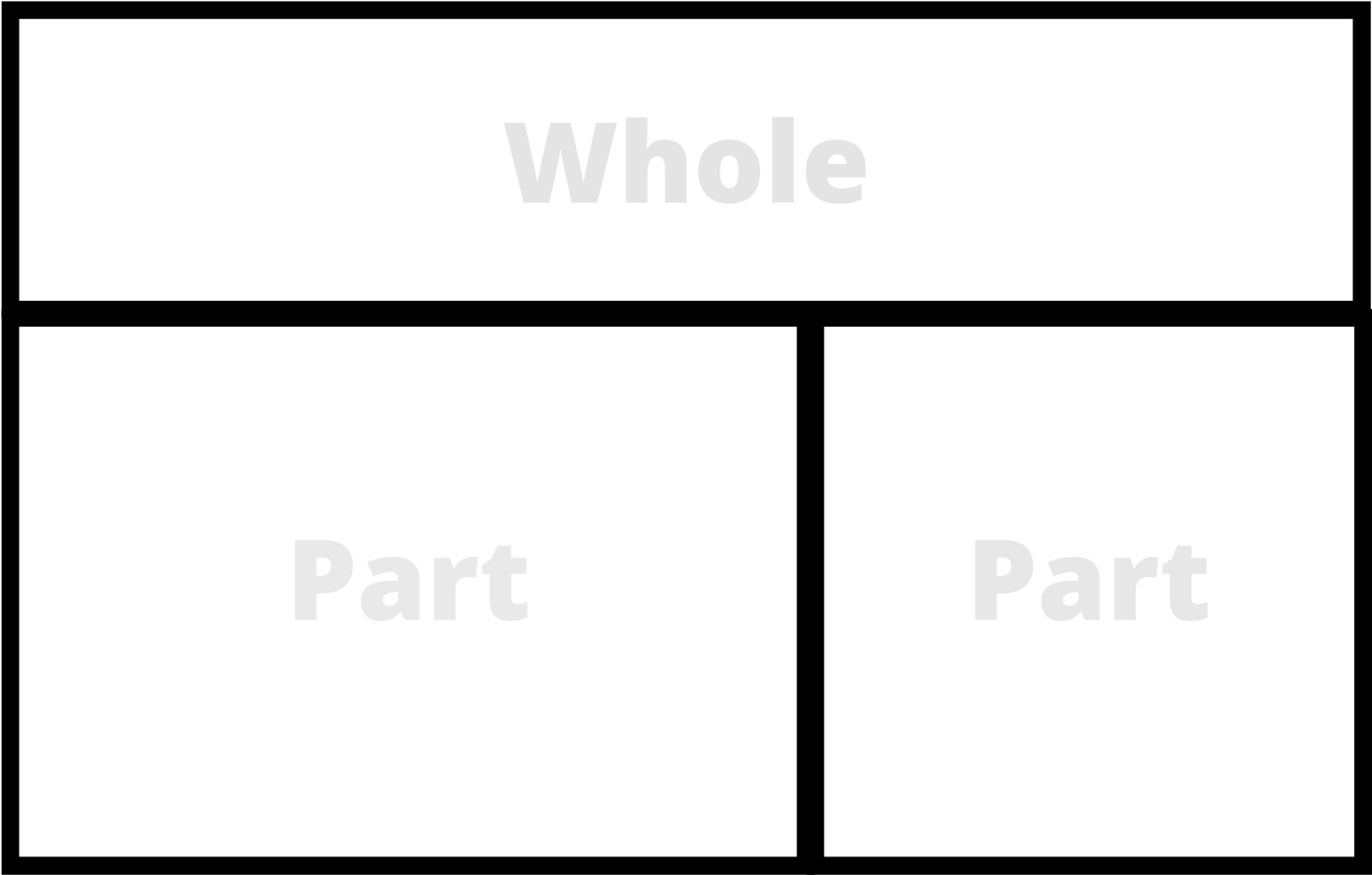
Part

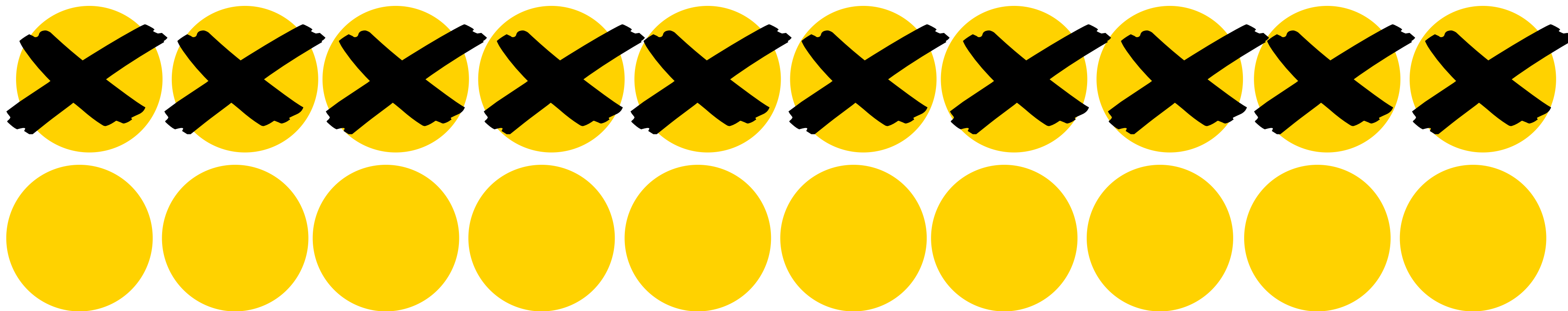
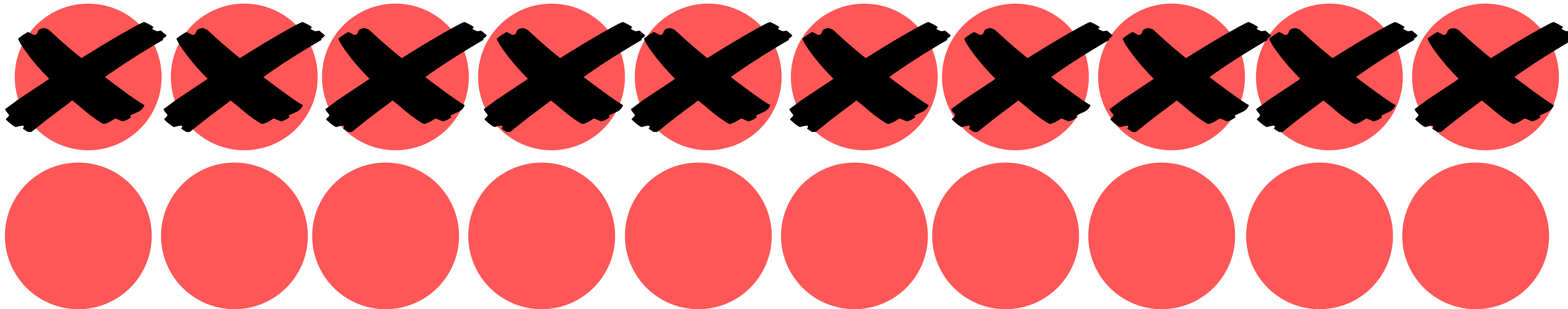
Part

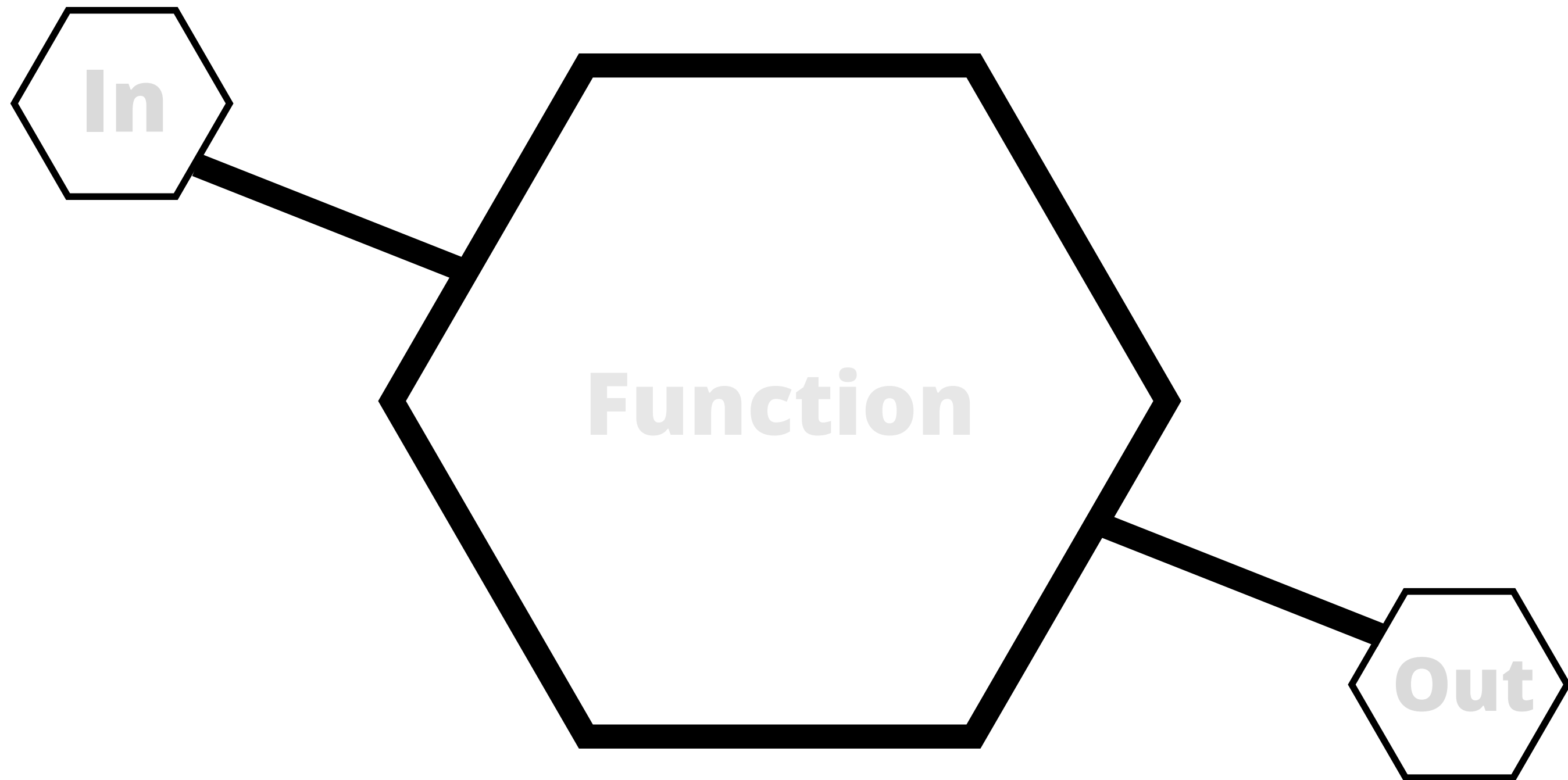
Whole

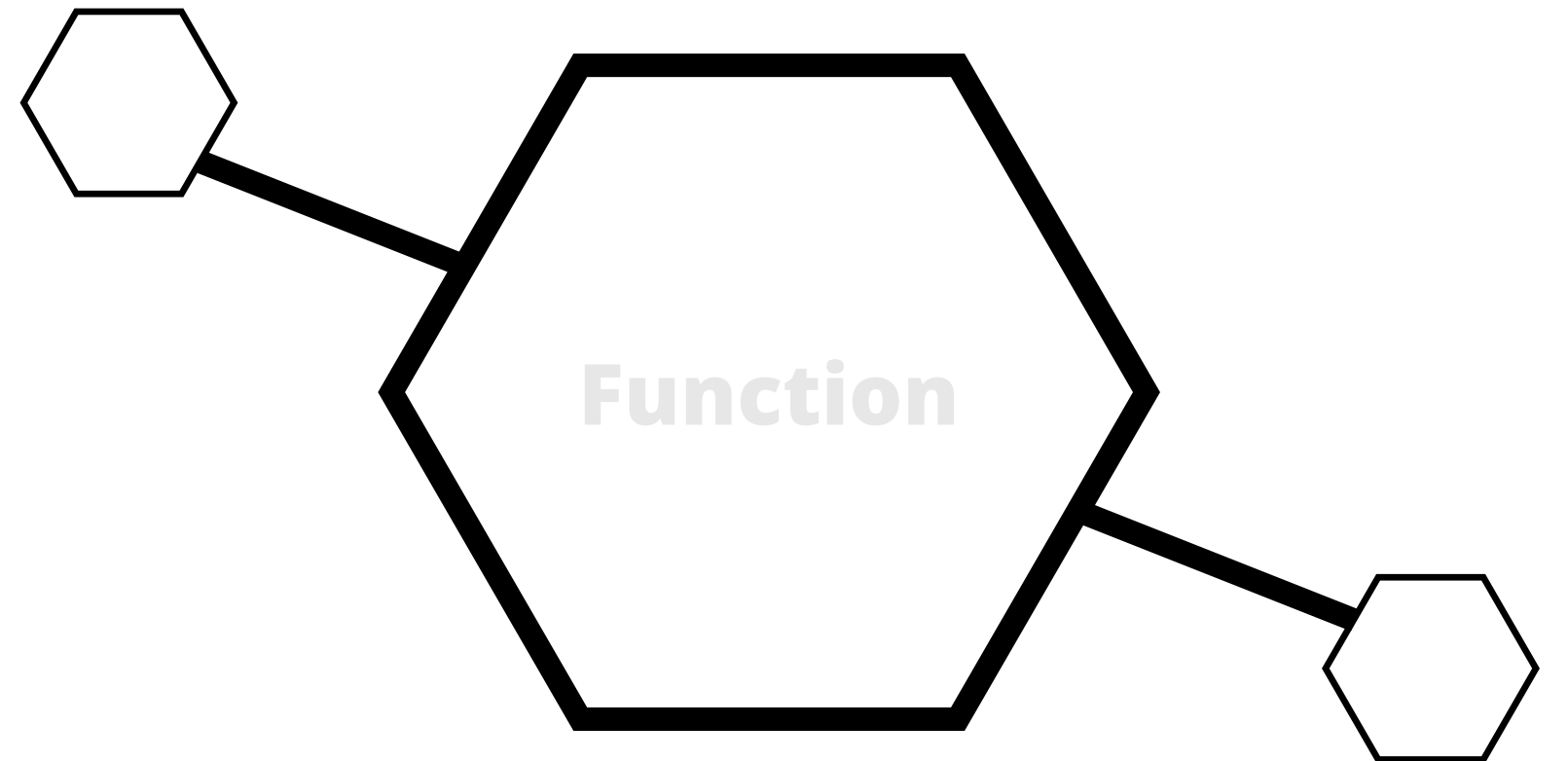
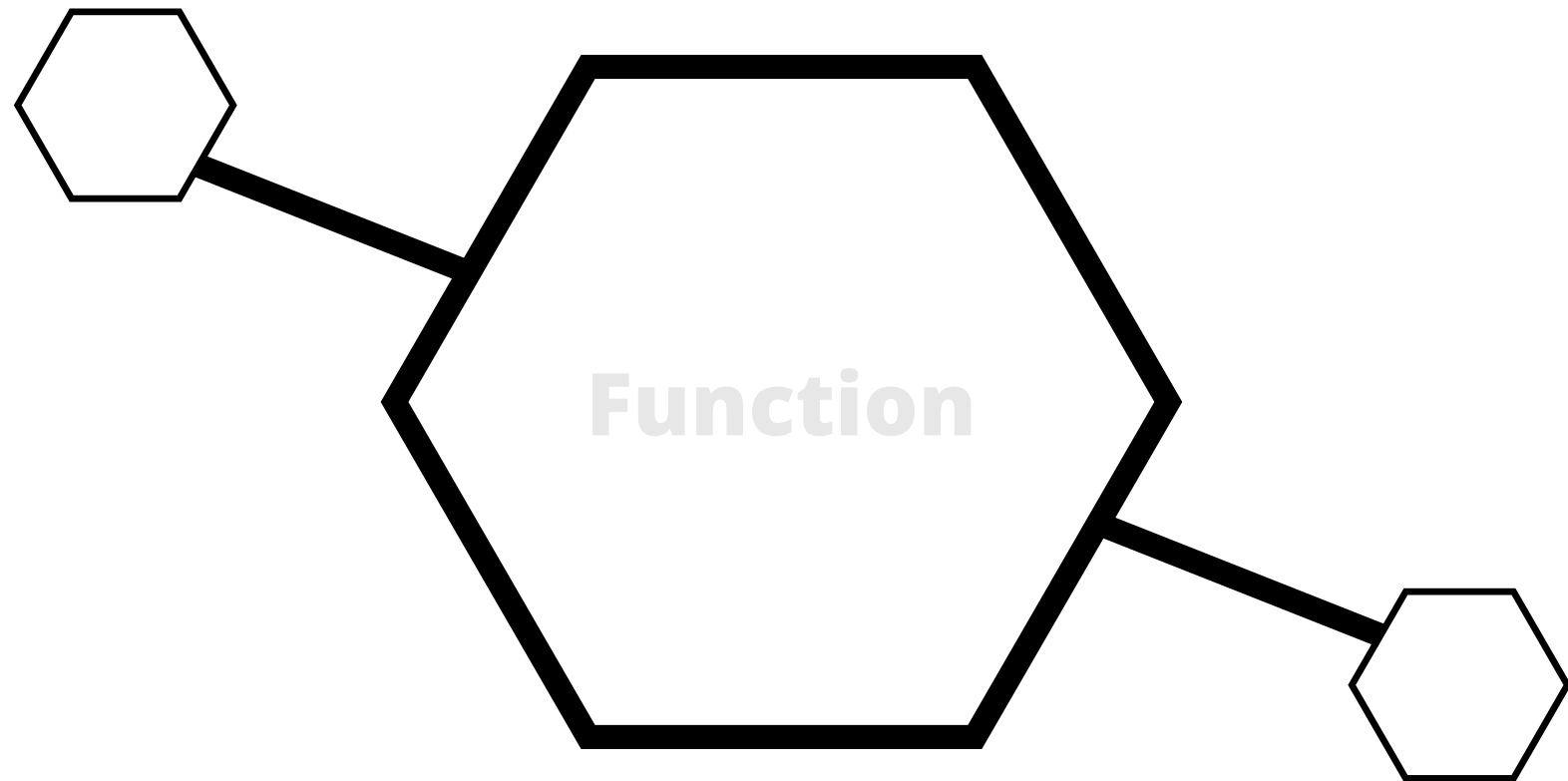
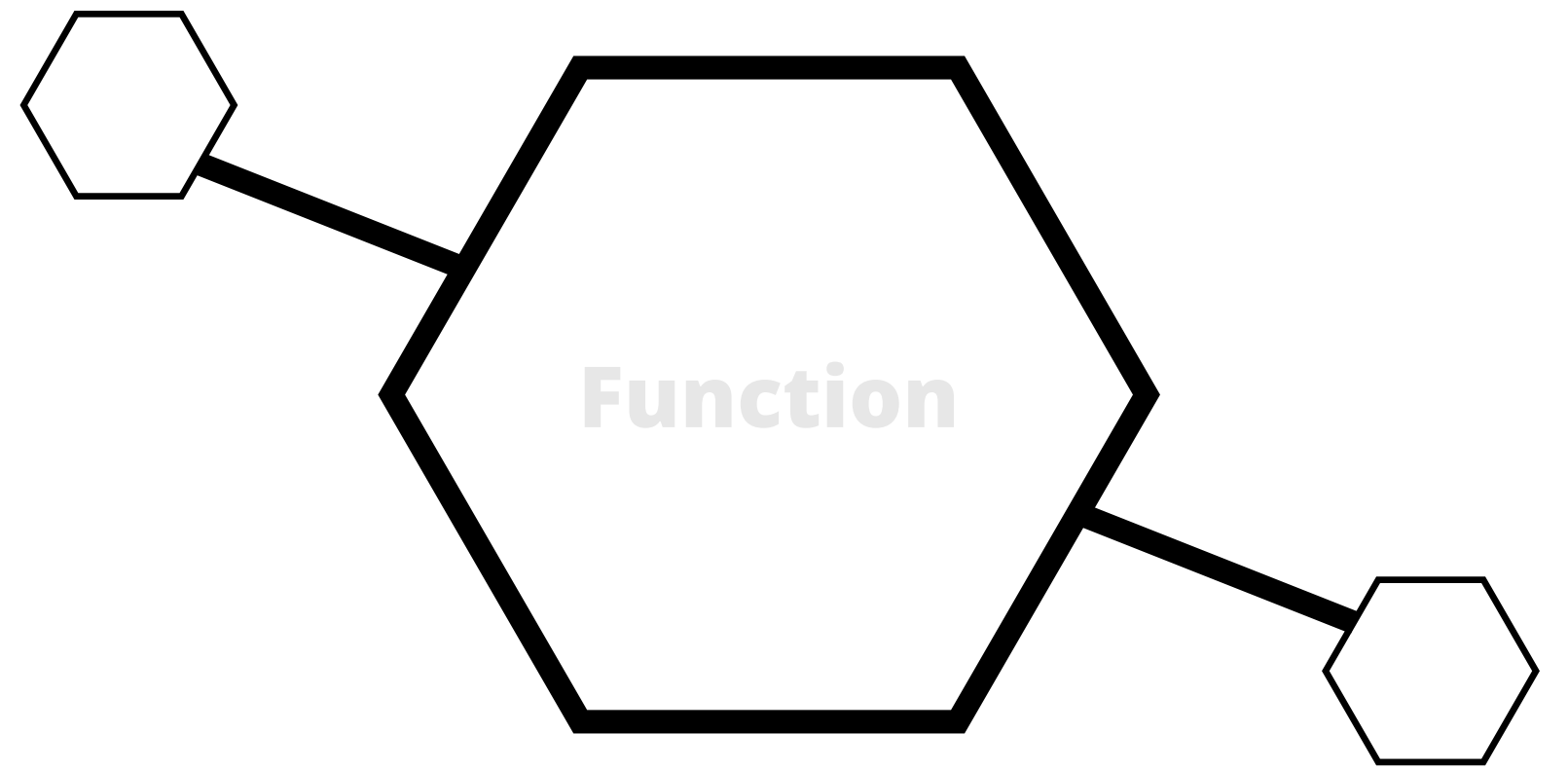
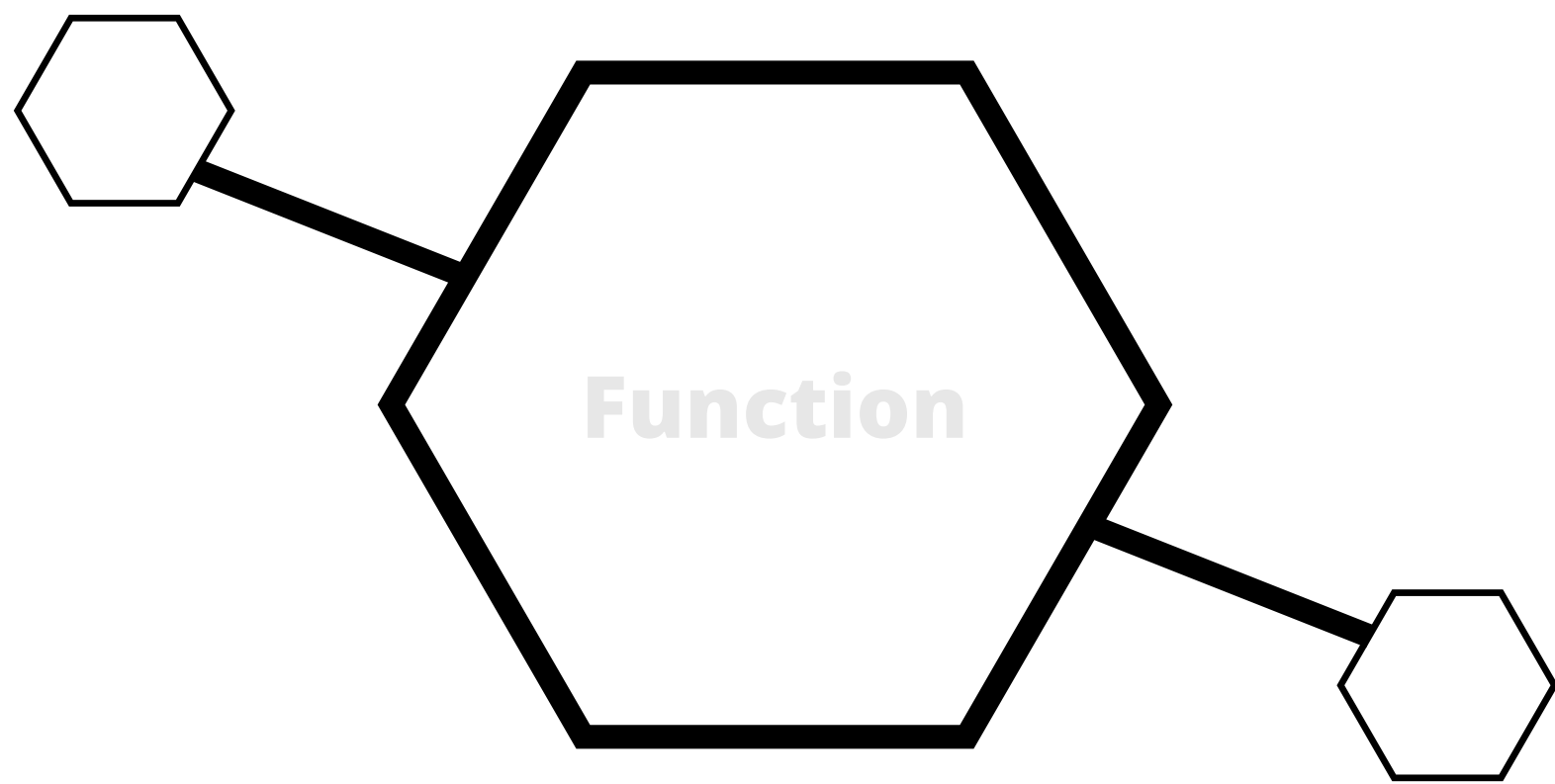
Part

Part









Digit cards

0

1

2

3

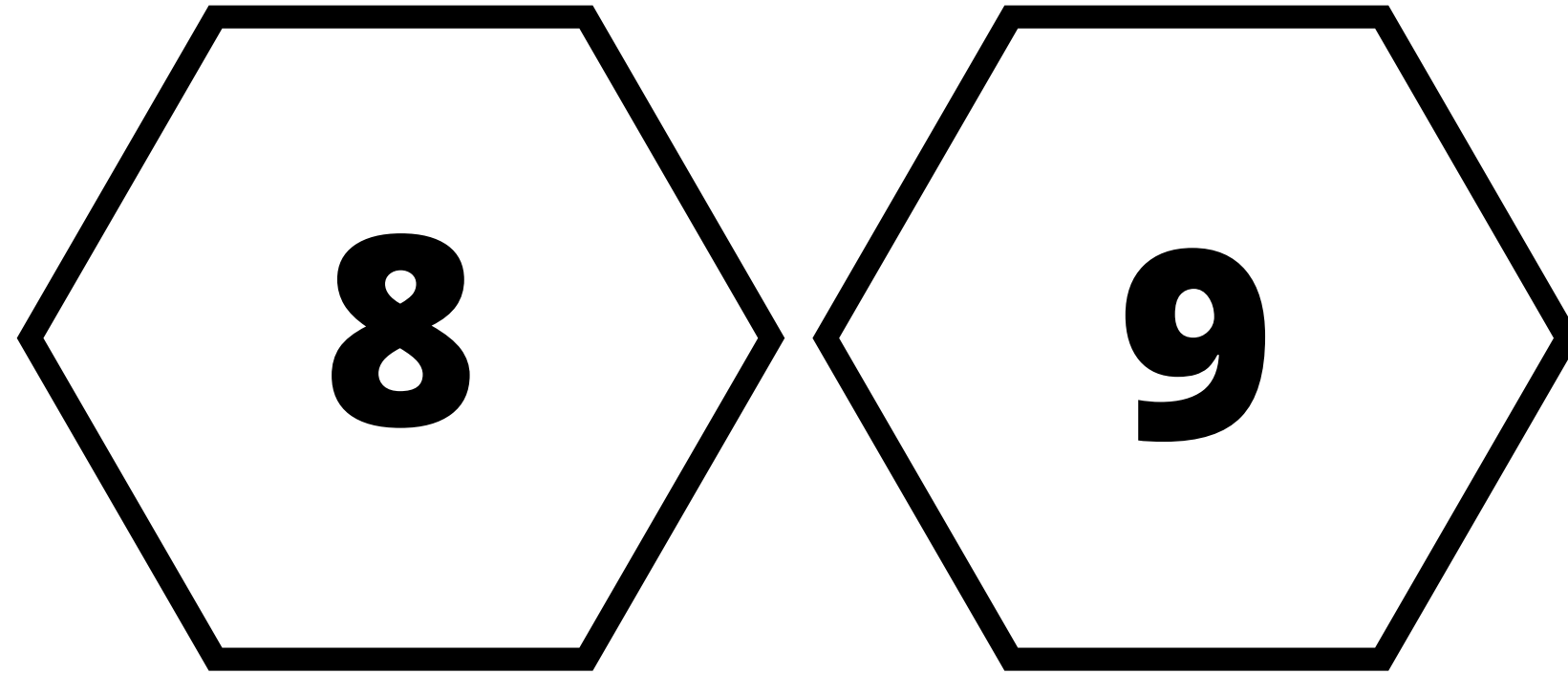
4

5

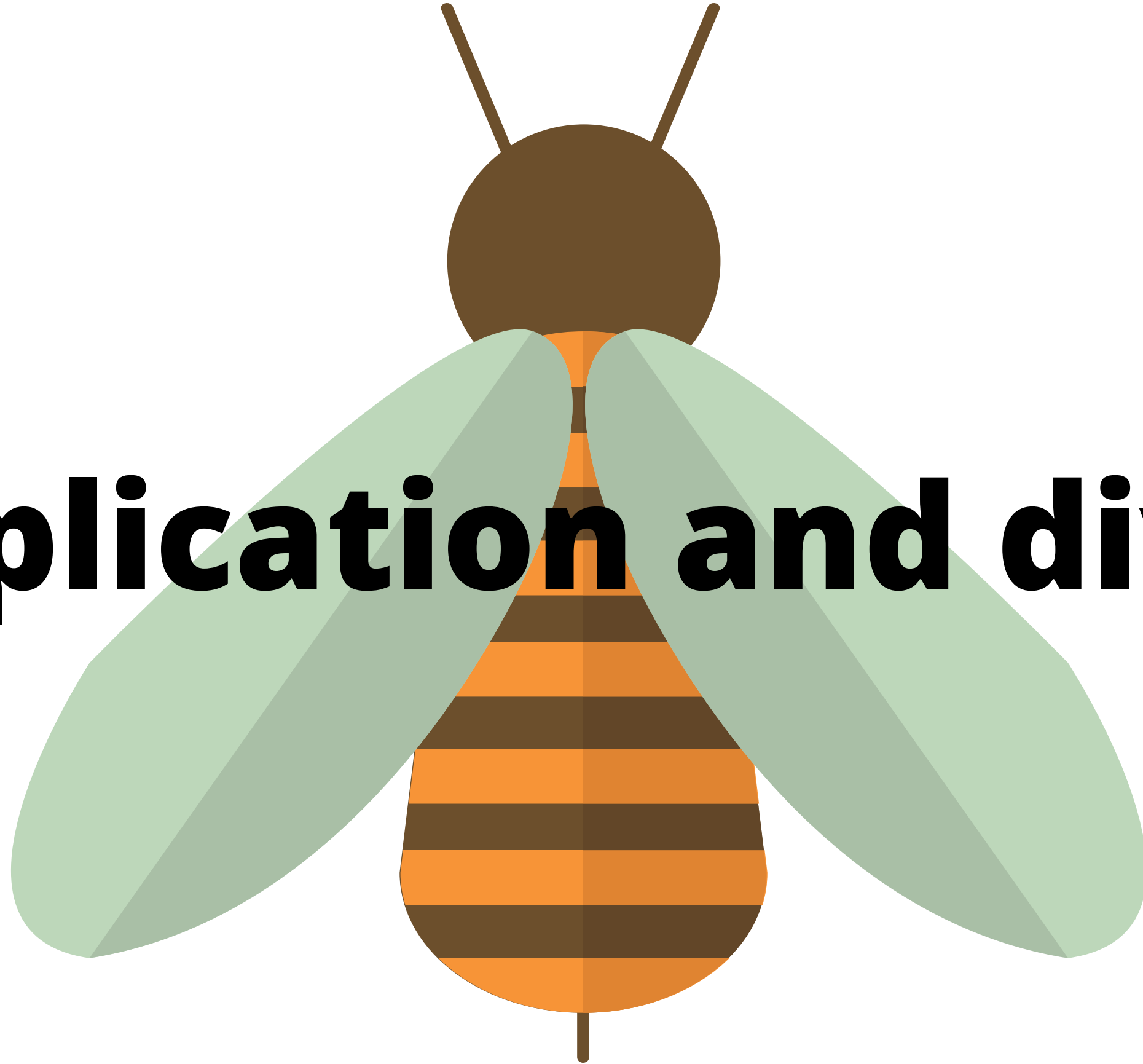
6

7

Digit cards



Multiplication and division



**Times
tables**

Multiply

**Equal
groups**

Multiple

Times

Divide

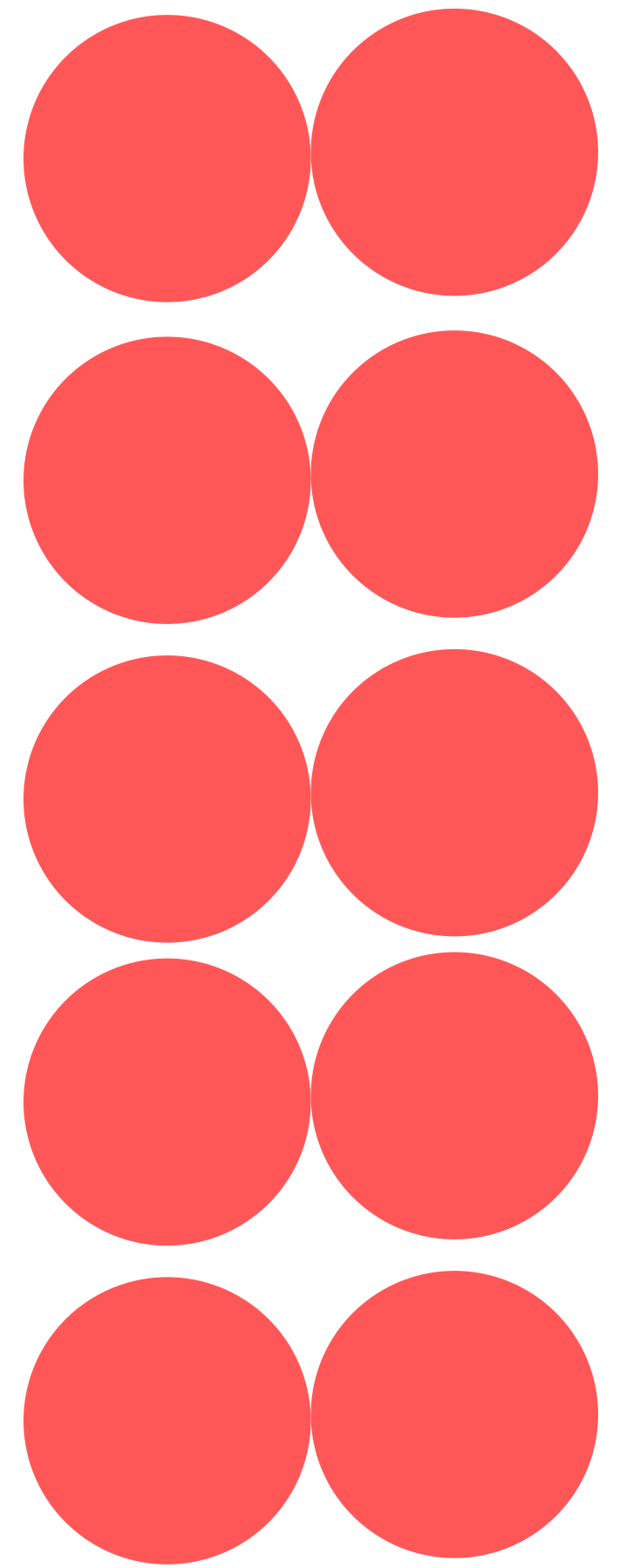
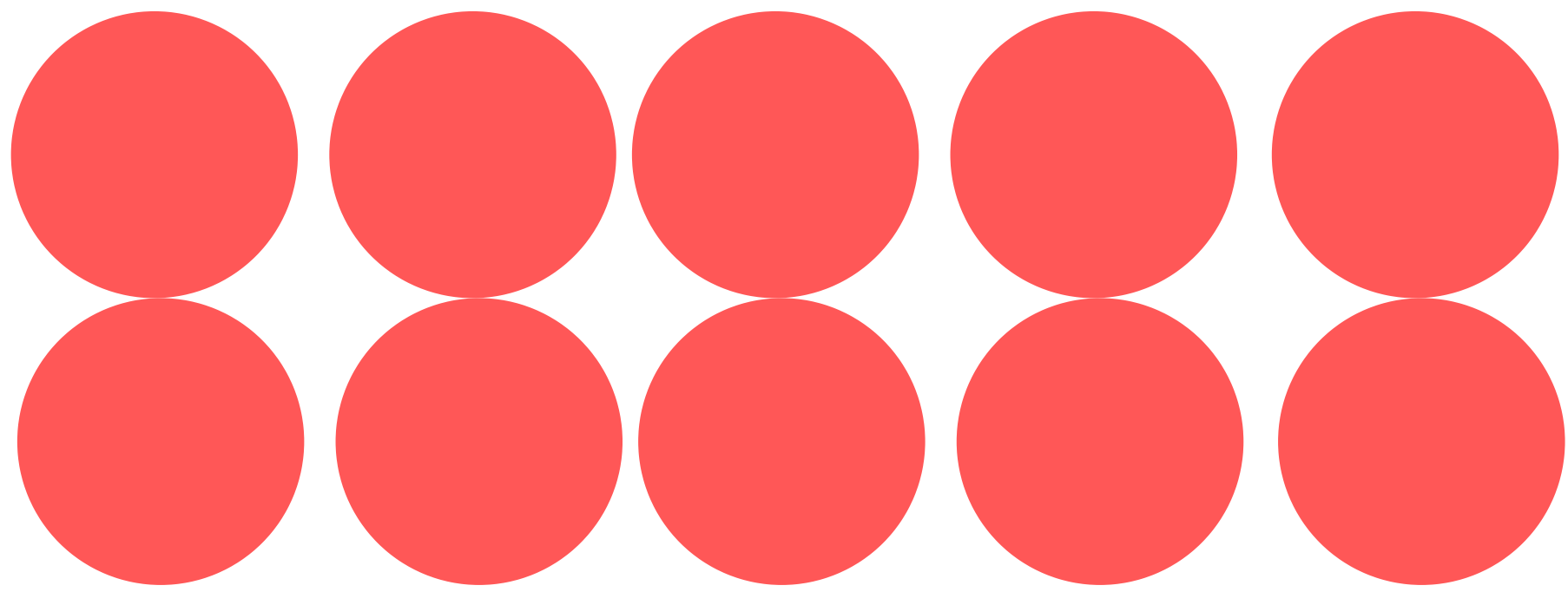
Array

Bar model

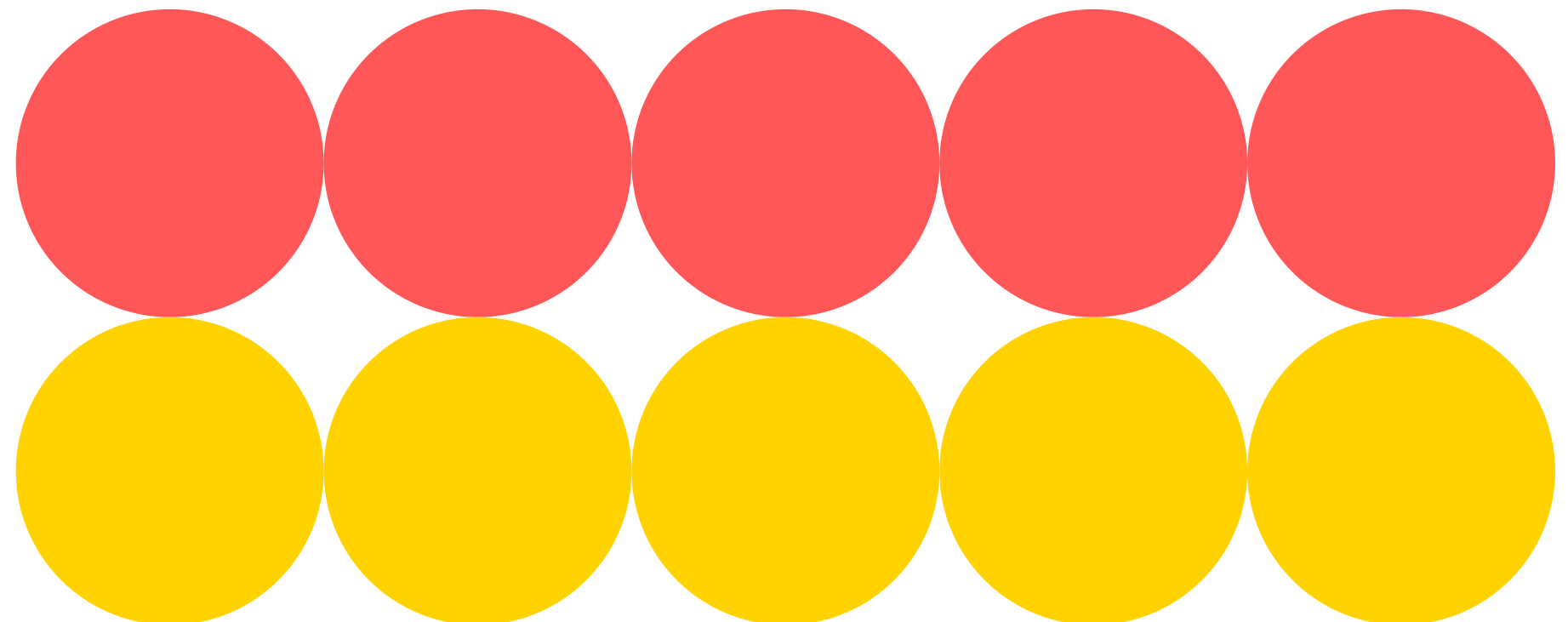
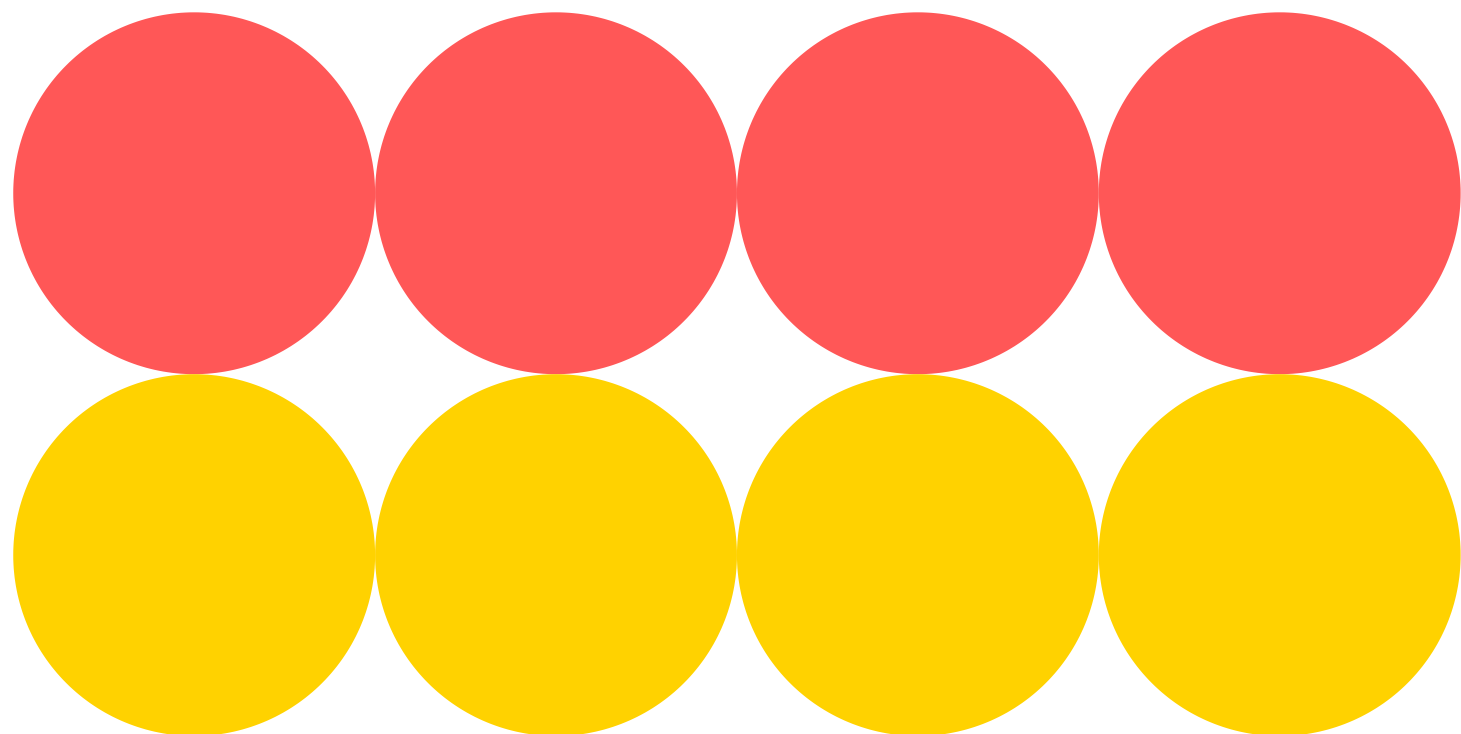
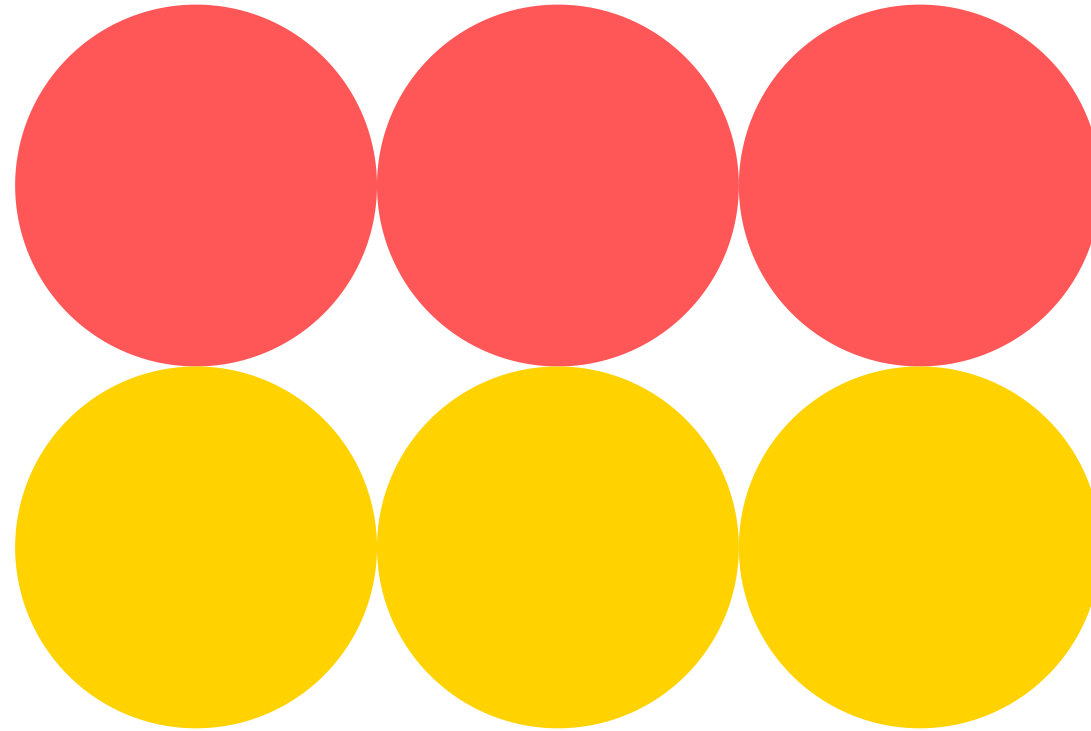
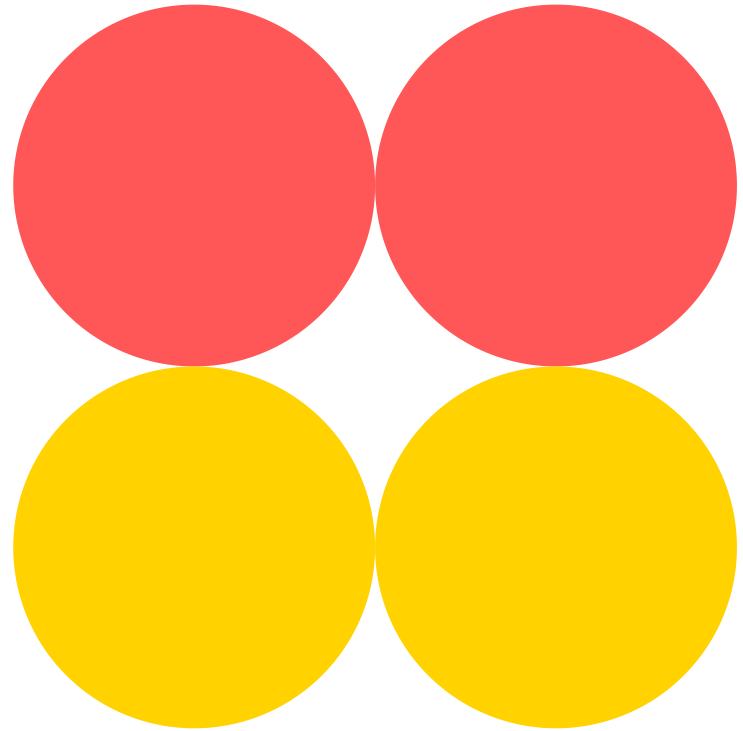
Remainder

**Repeated
addition**

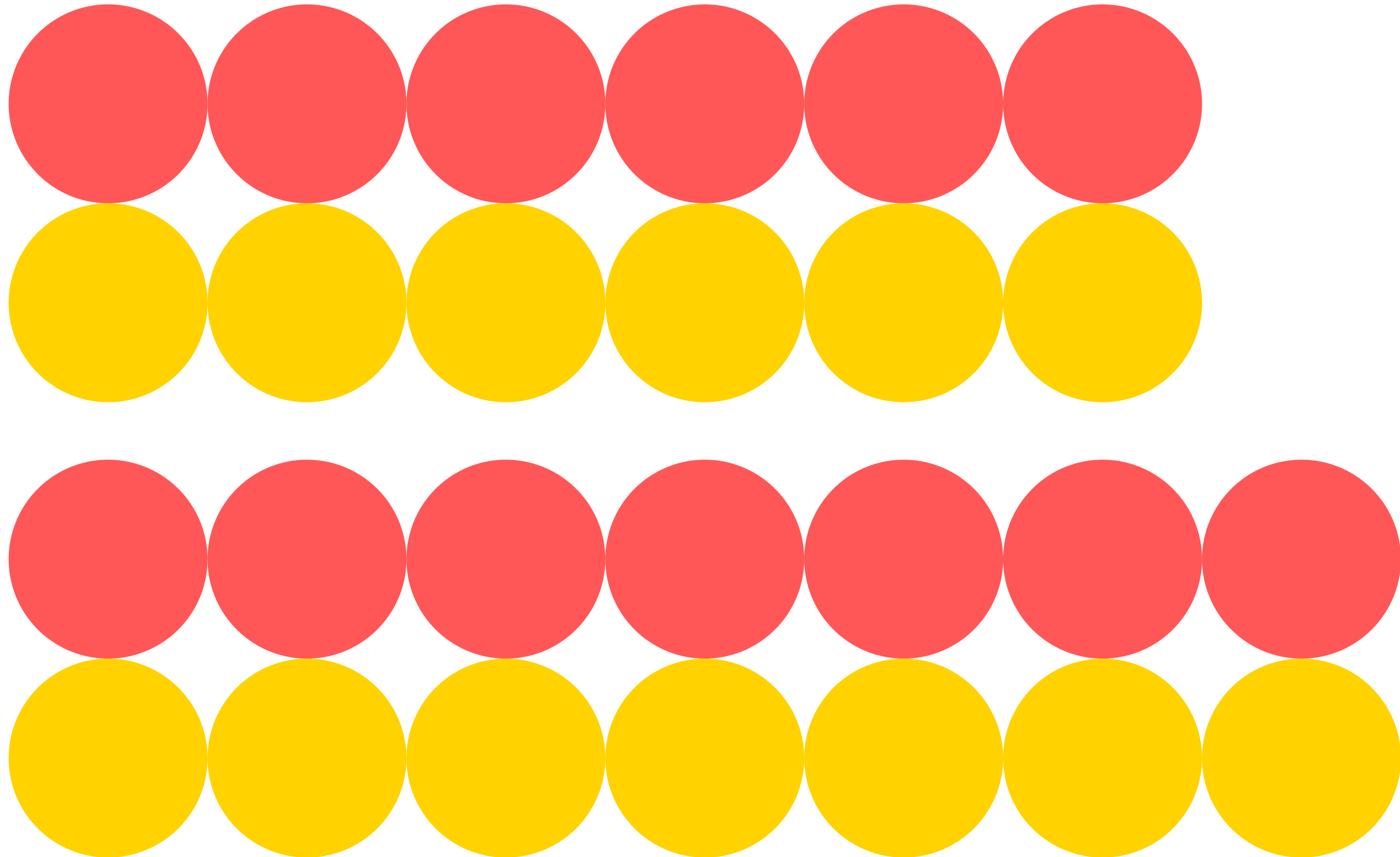
**Divison
facts**



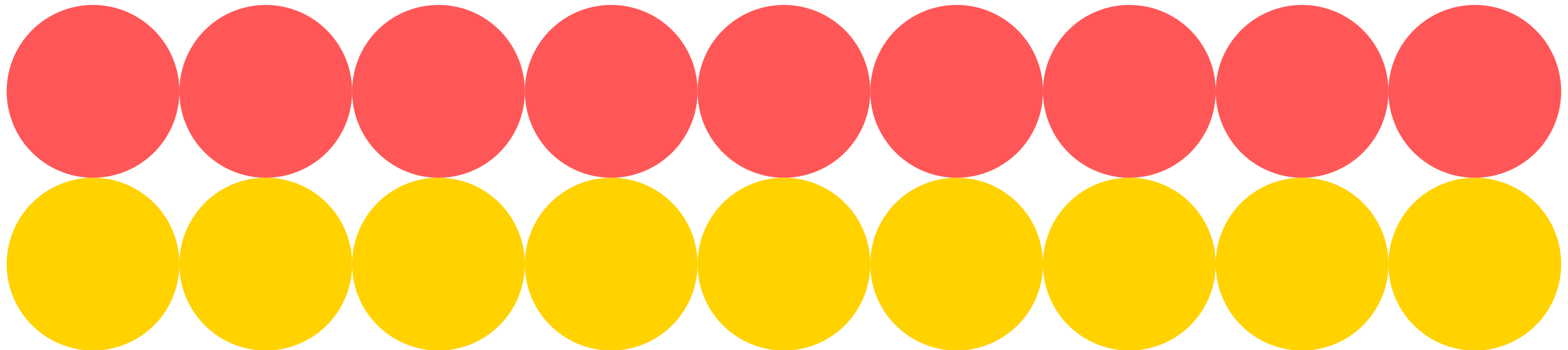
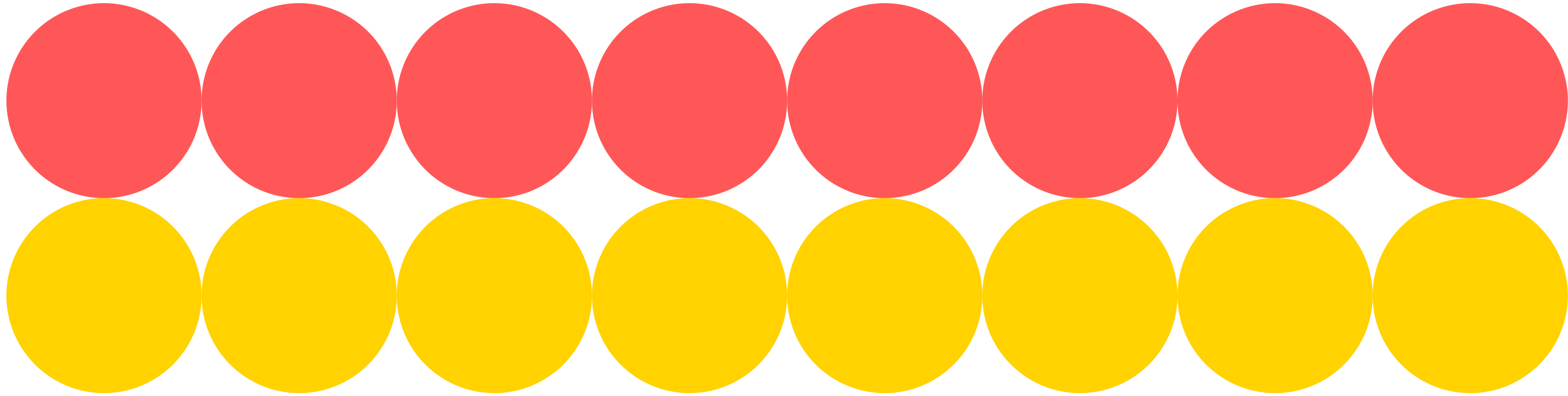
Arrays (Doubles)



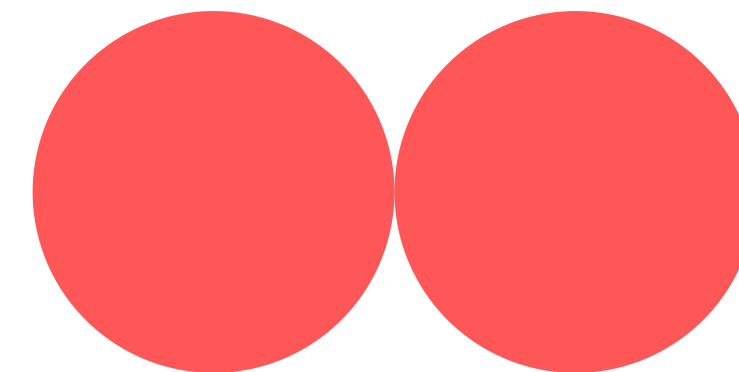
Arrays (Doubles/halves)



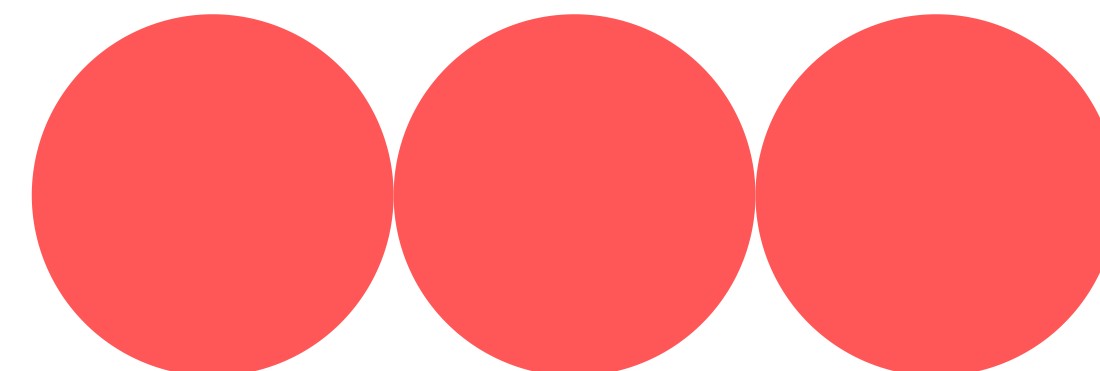
Arrays (Doubles/halves)



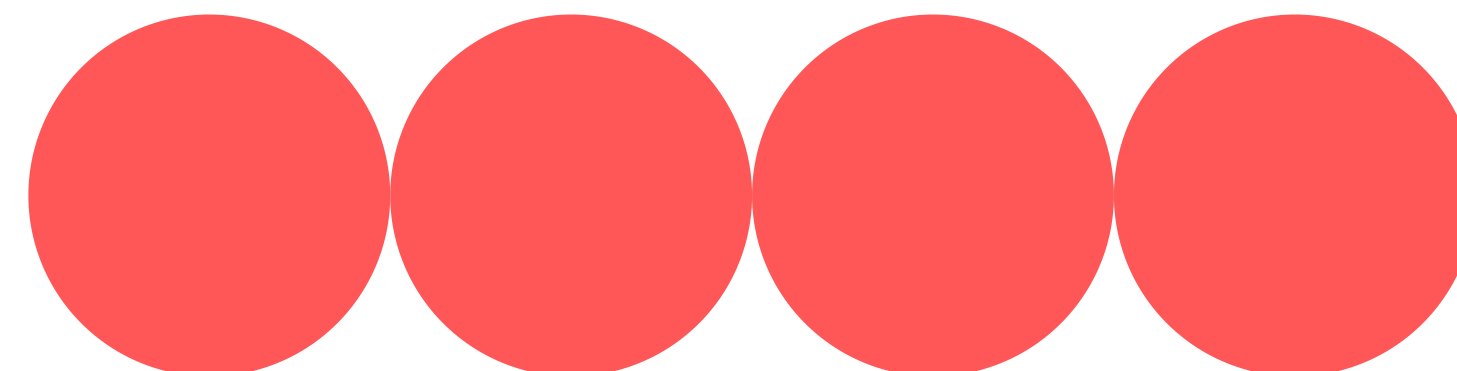
One group of 2



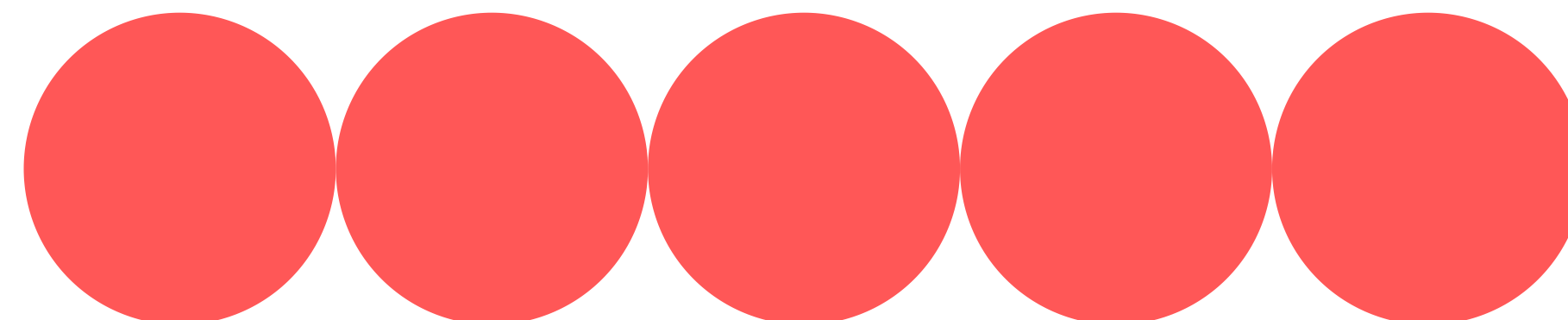
One group of 3



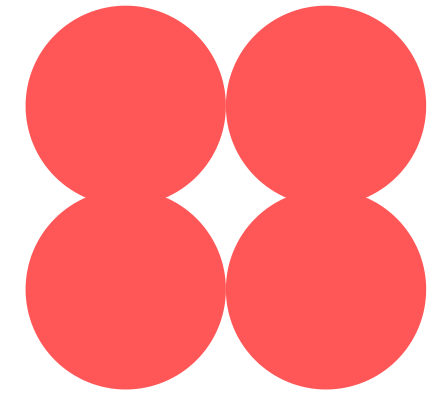
One group of 4



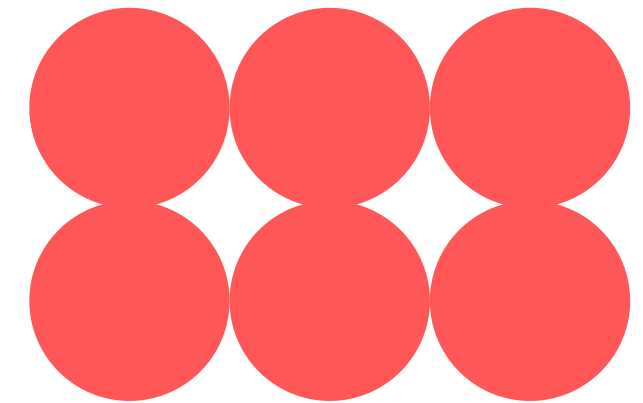
One group of 5



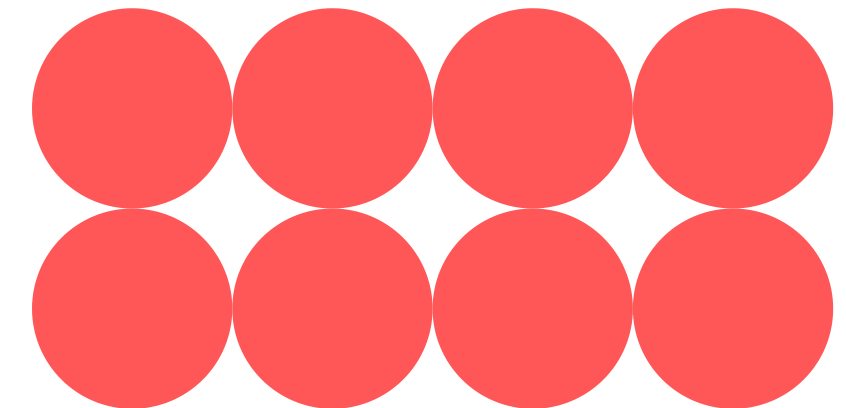
Two group of 2



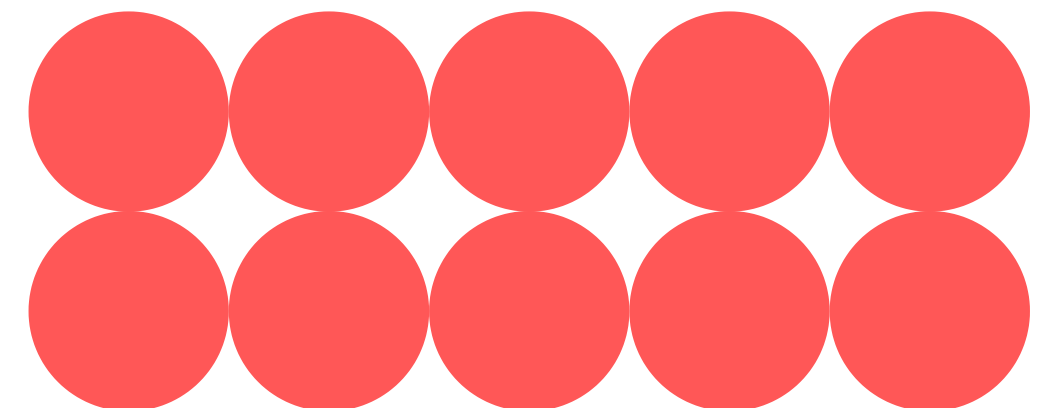
Two group of 3

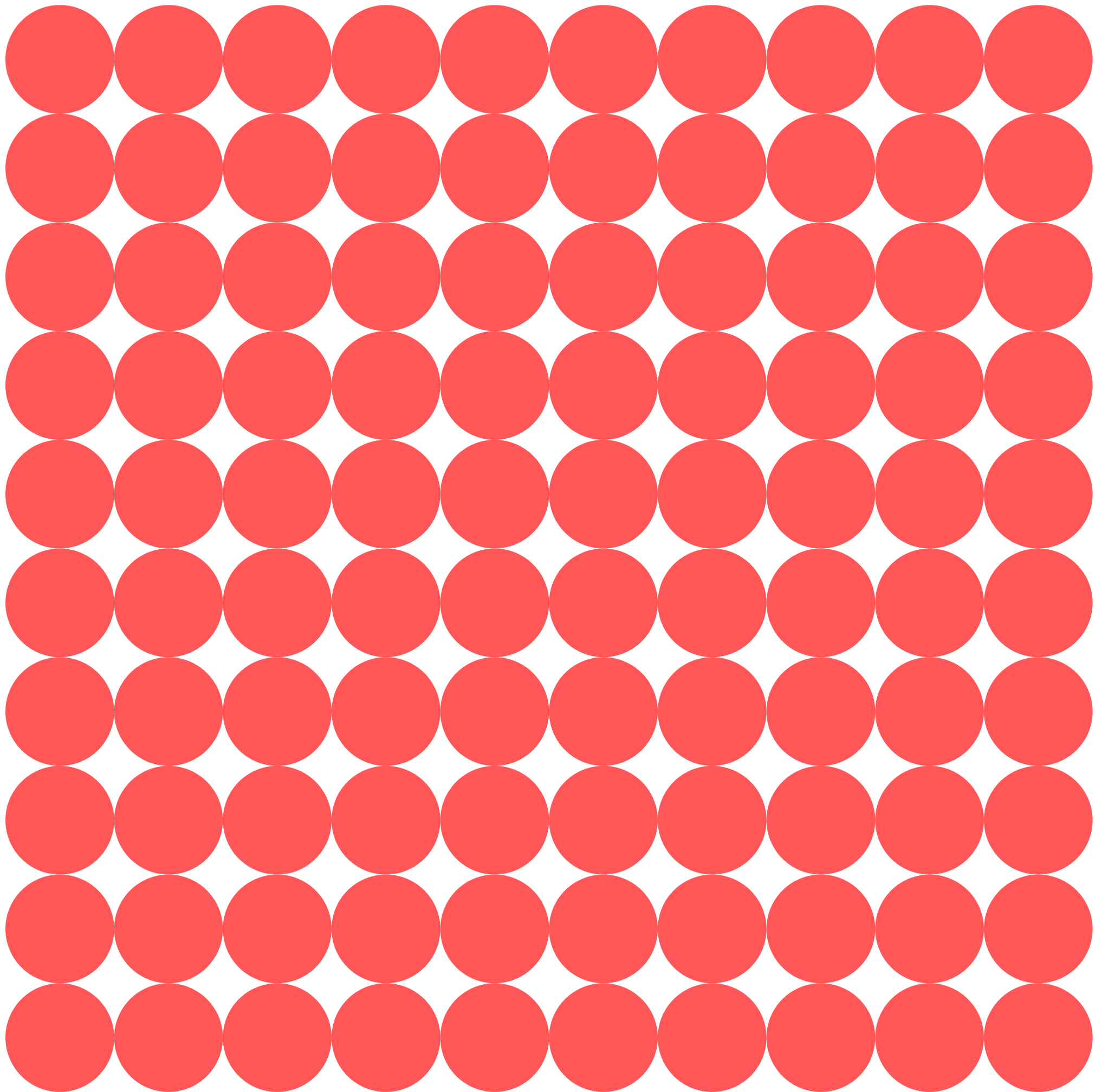


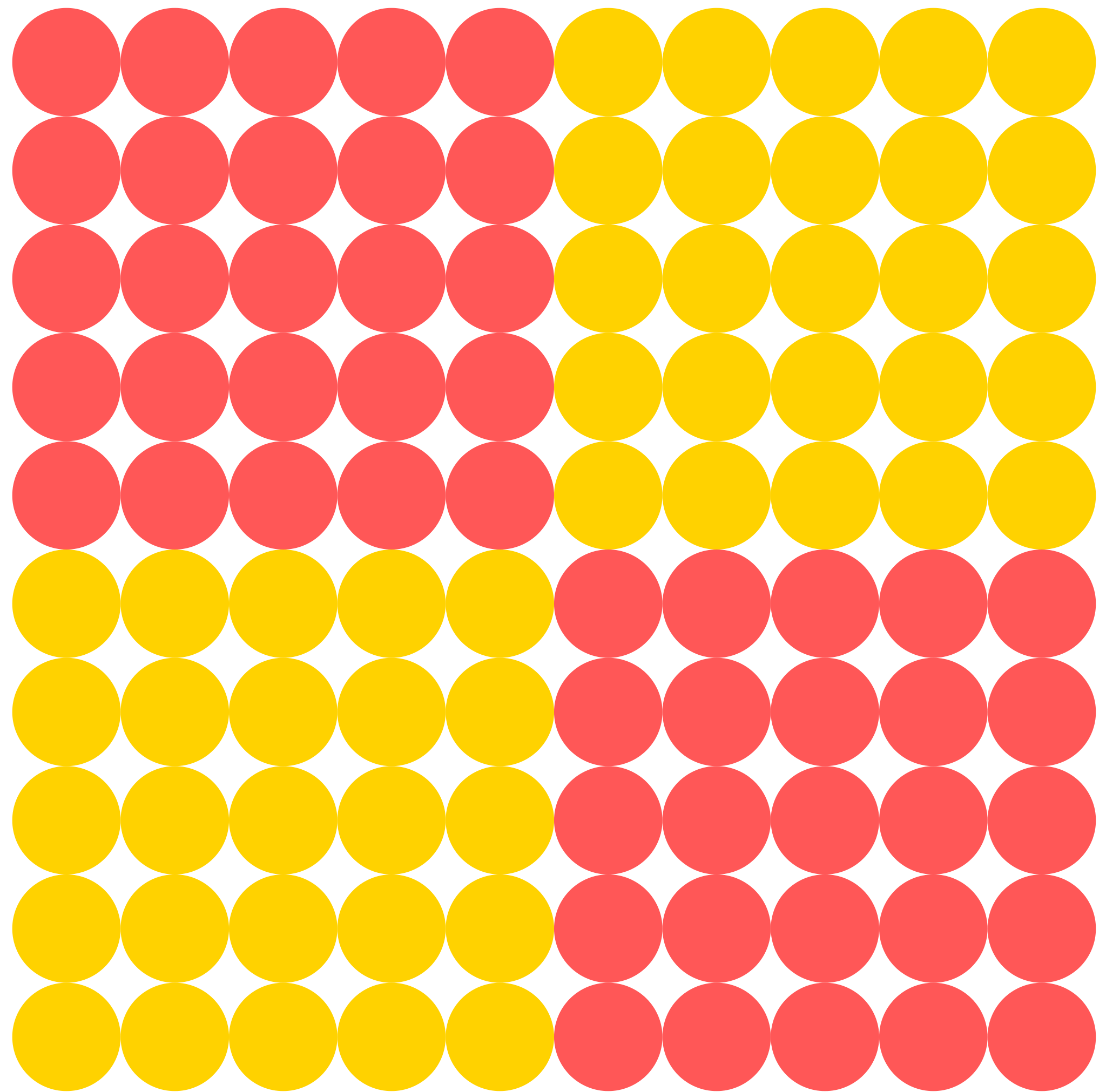
Two group of 4

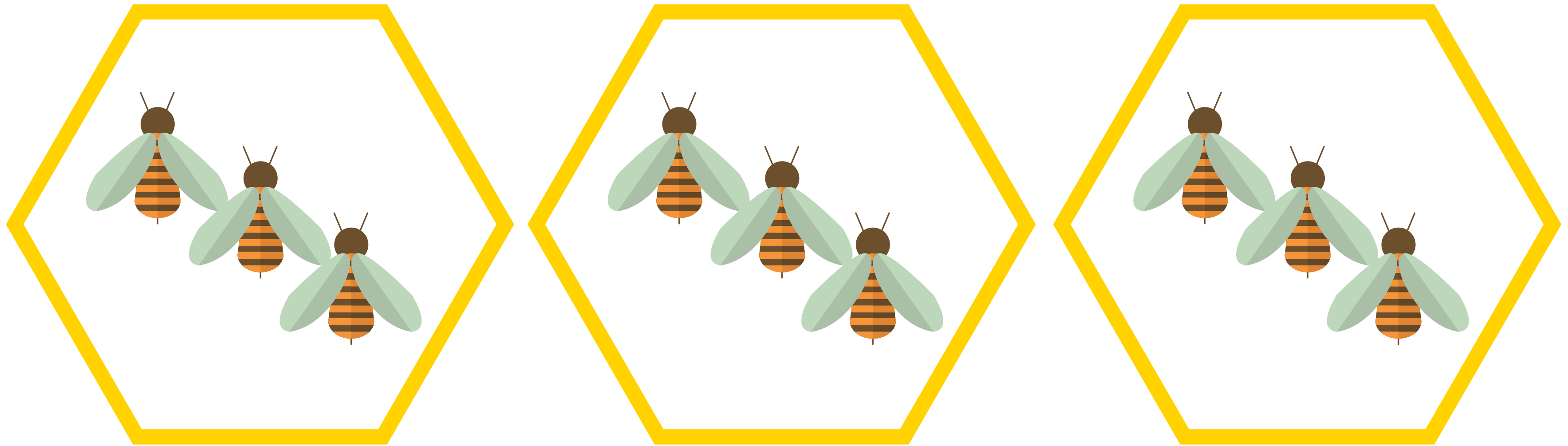


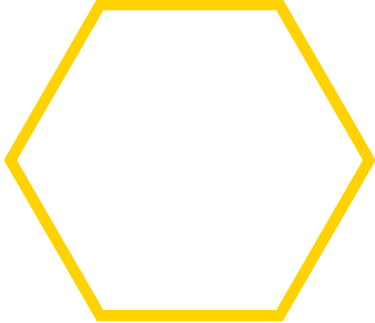
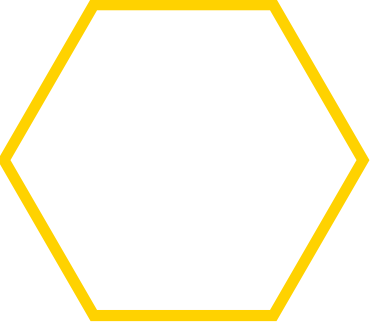
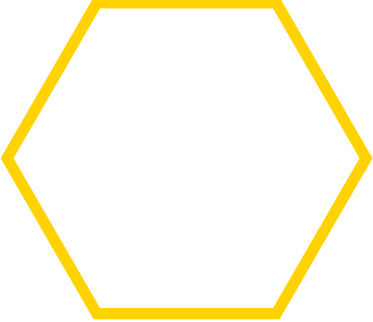
Two group of 5

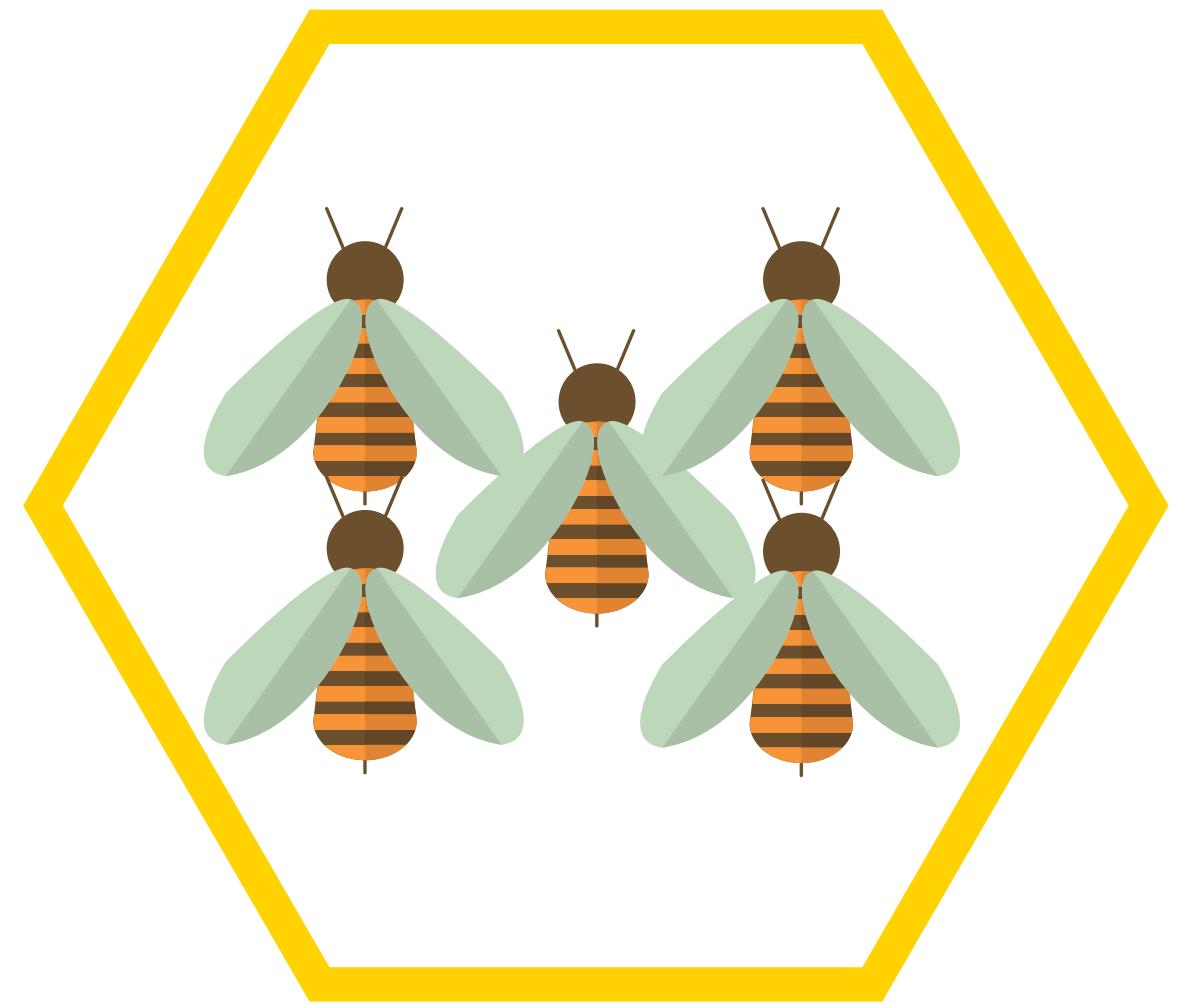
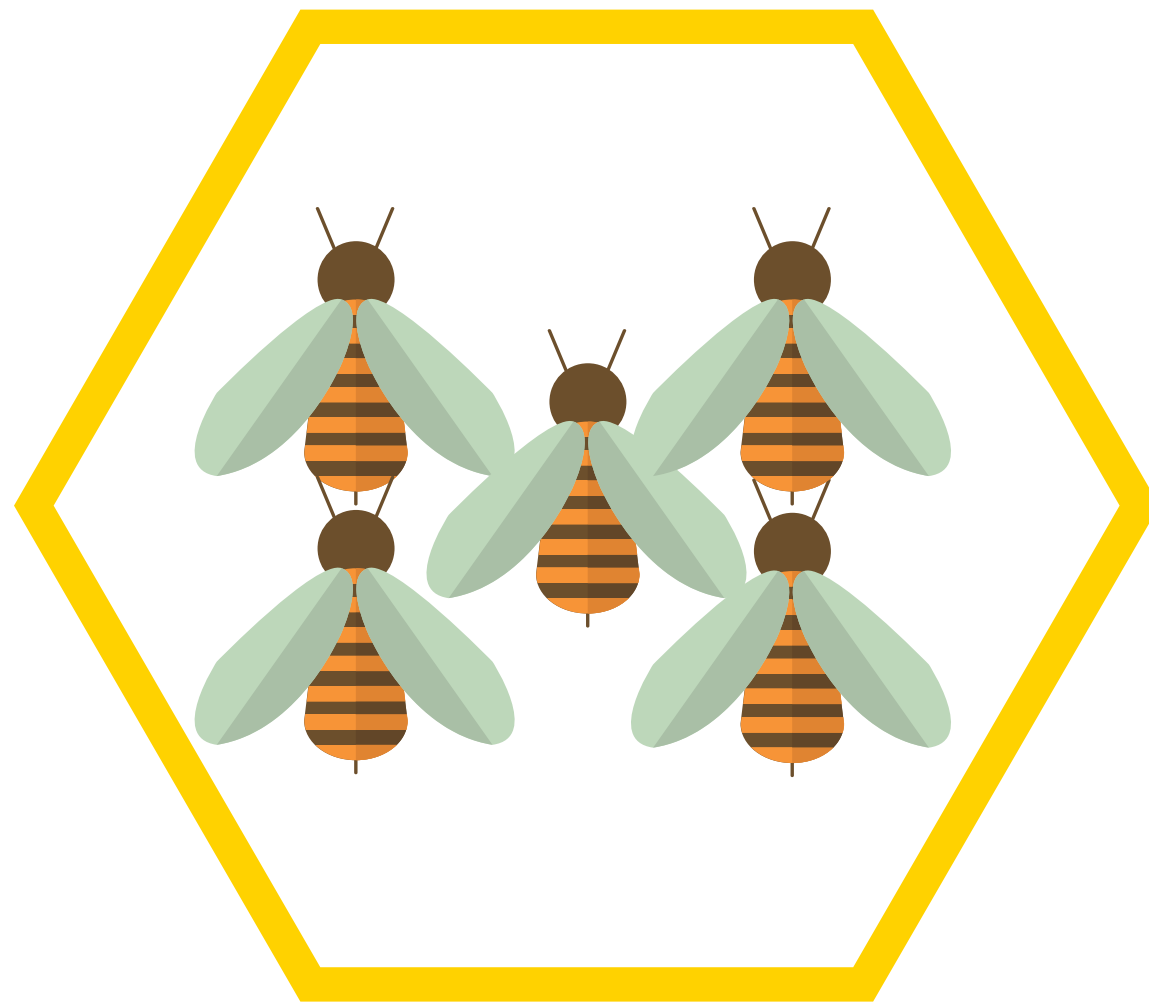
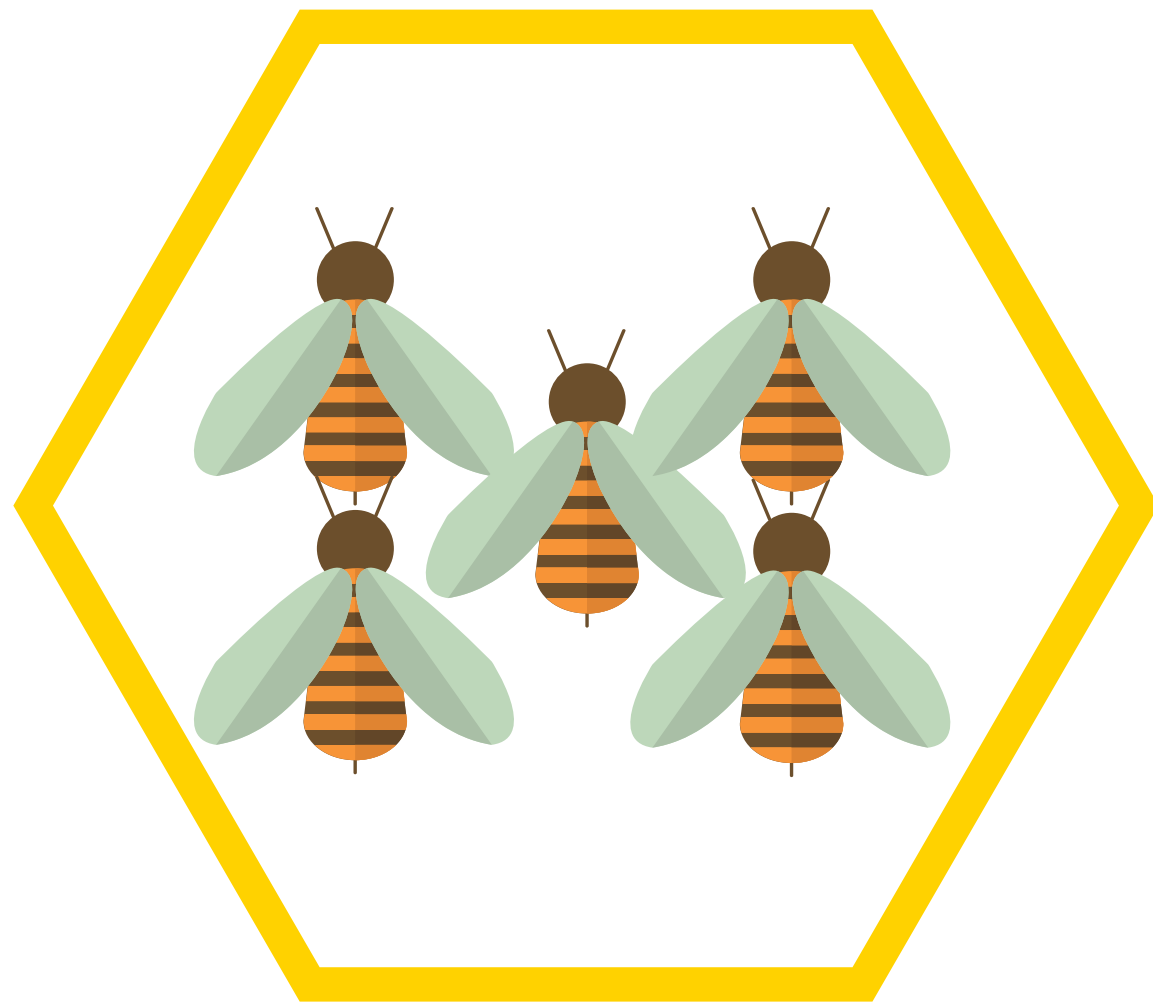


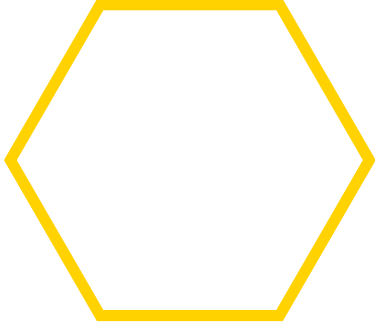
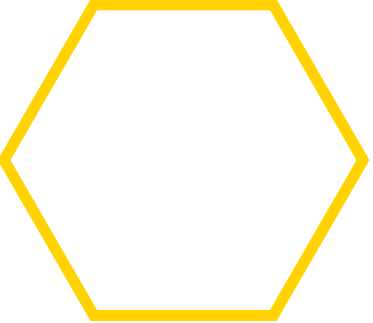
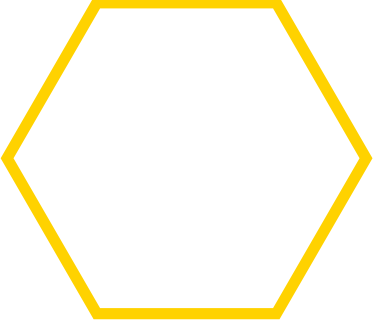


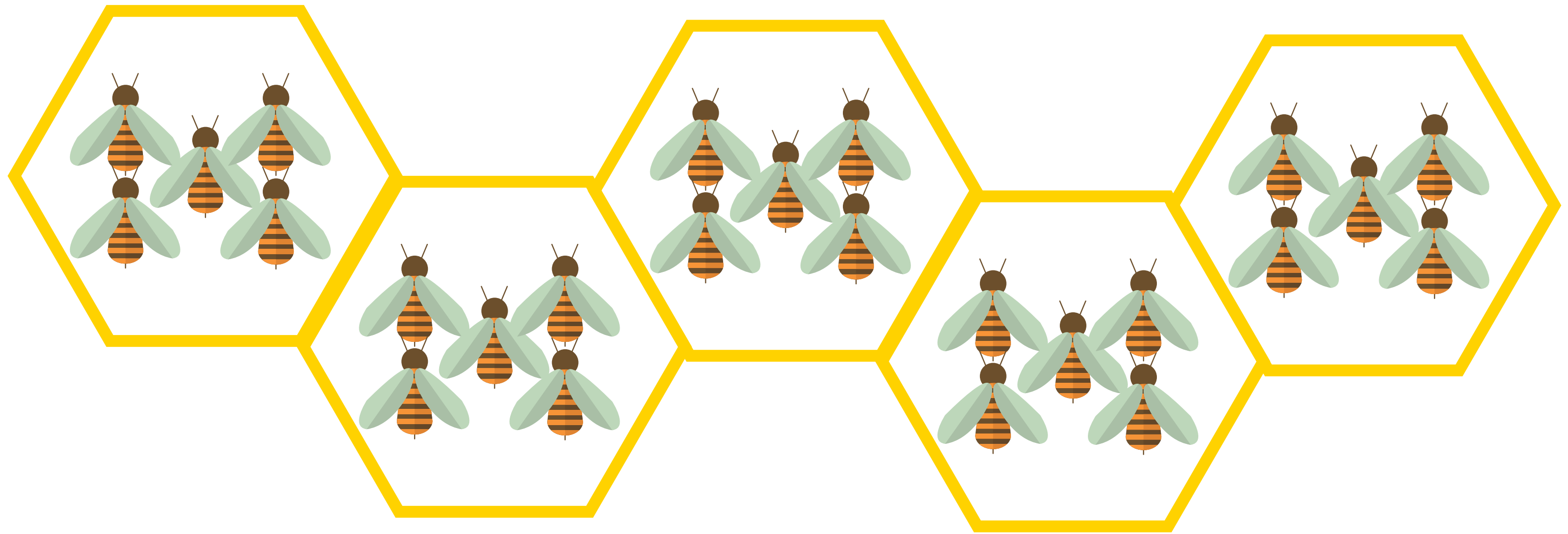


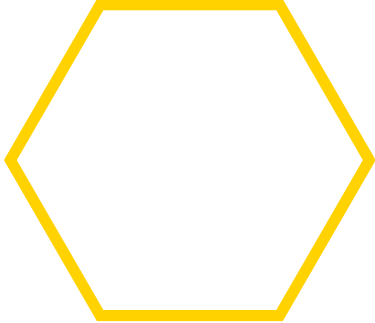
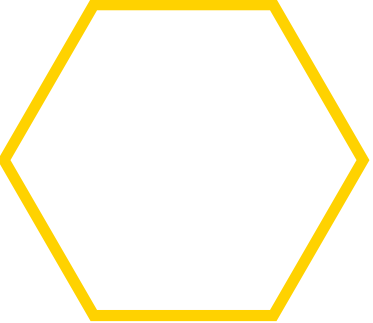
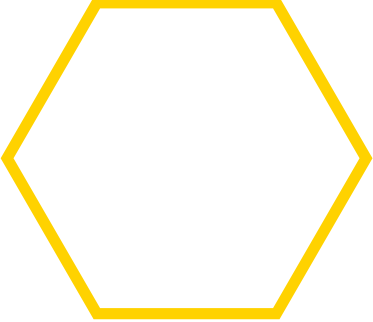


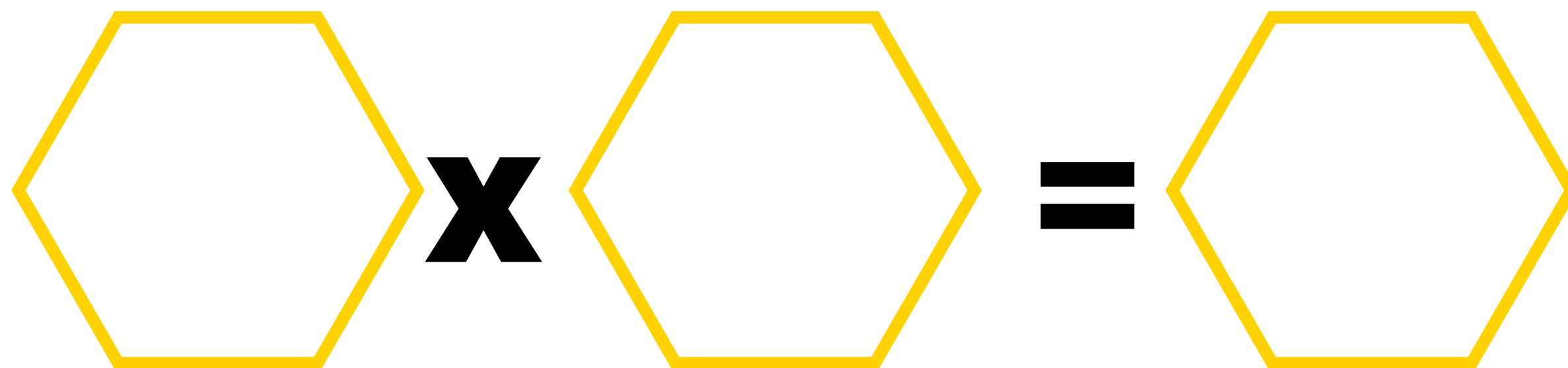
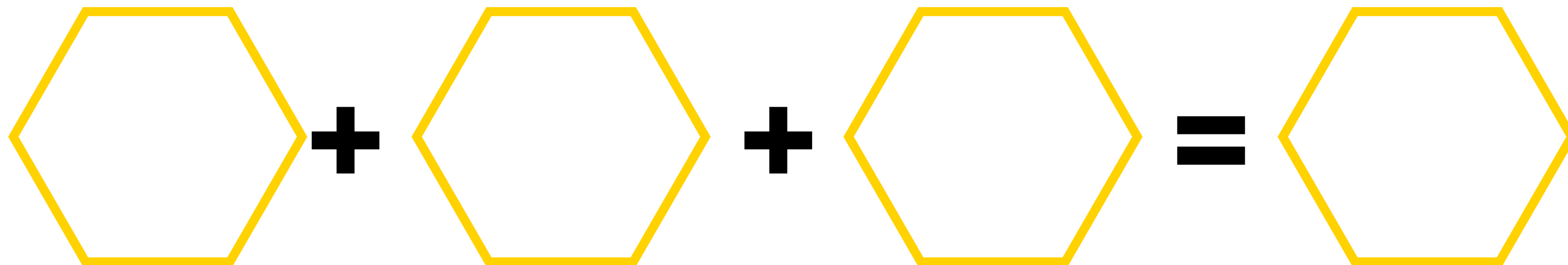
There are  equal groups of 
Each group contains  bees.

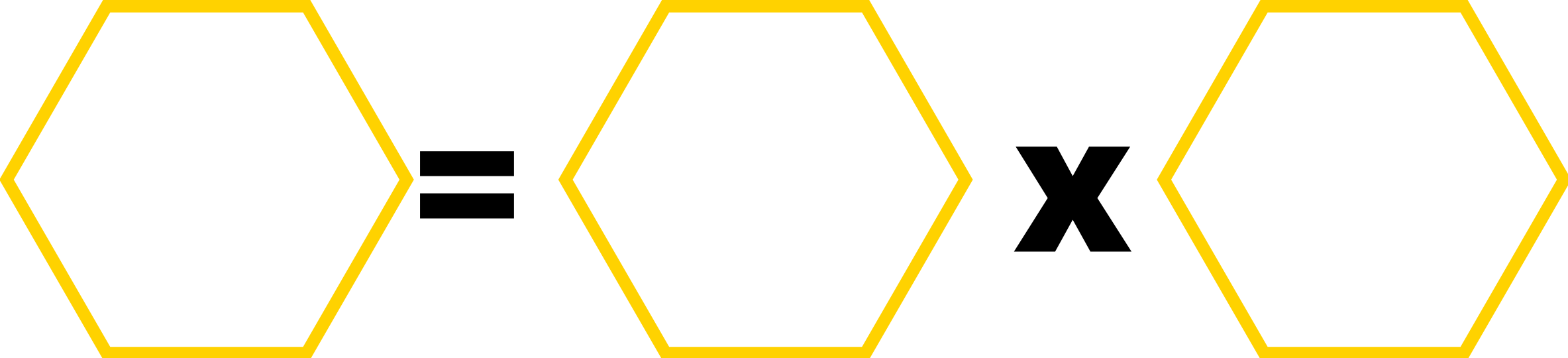
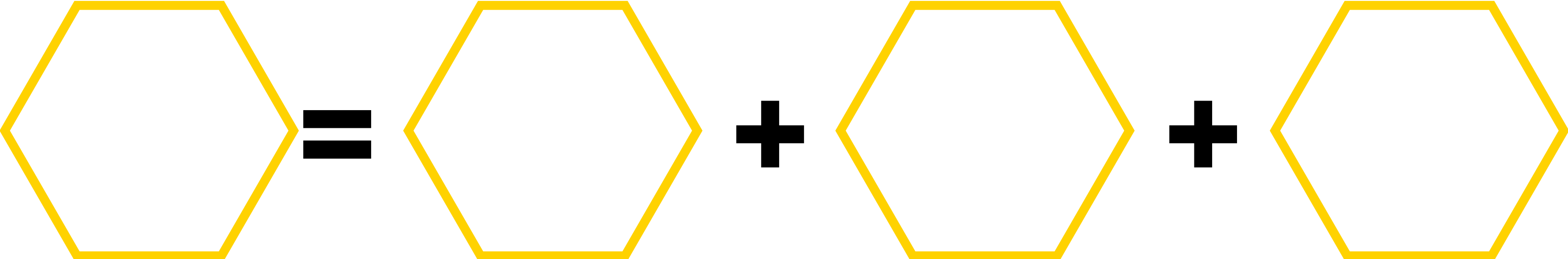


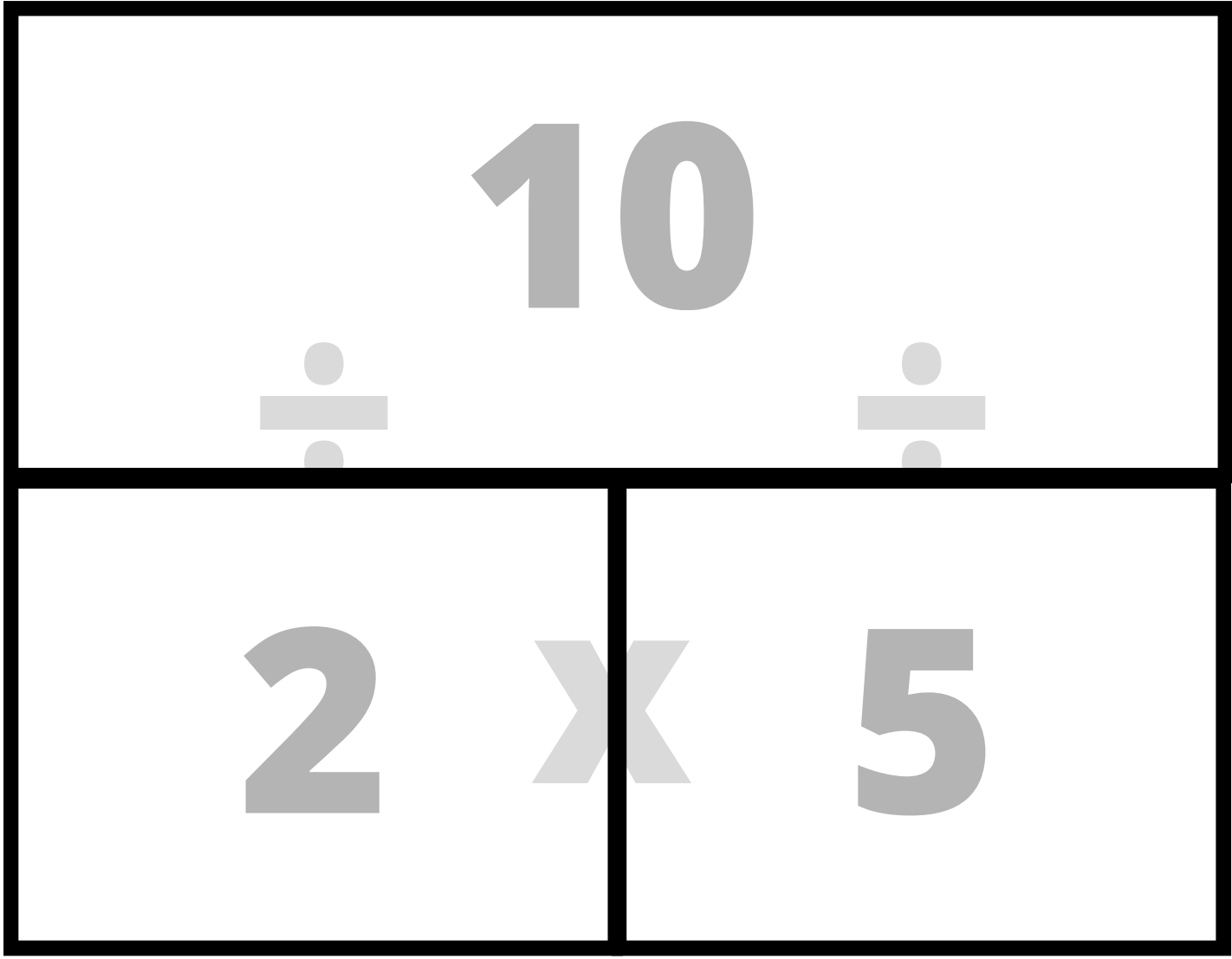
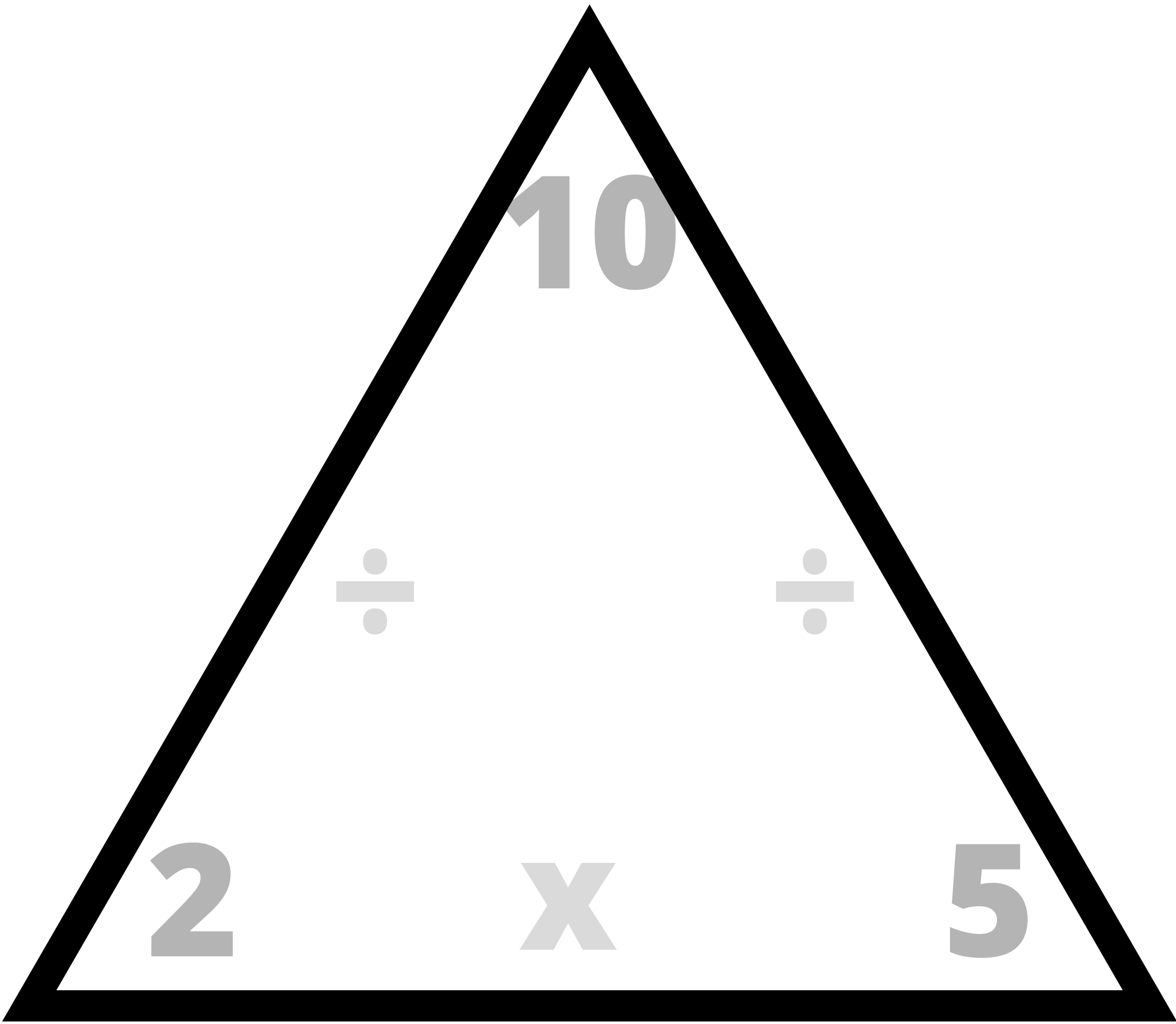
There are  equal groups of 
Each group contains  bees.

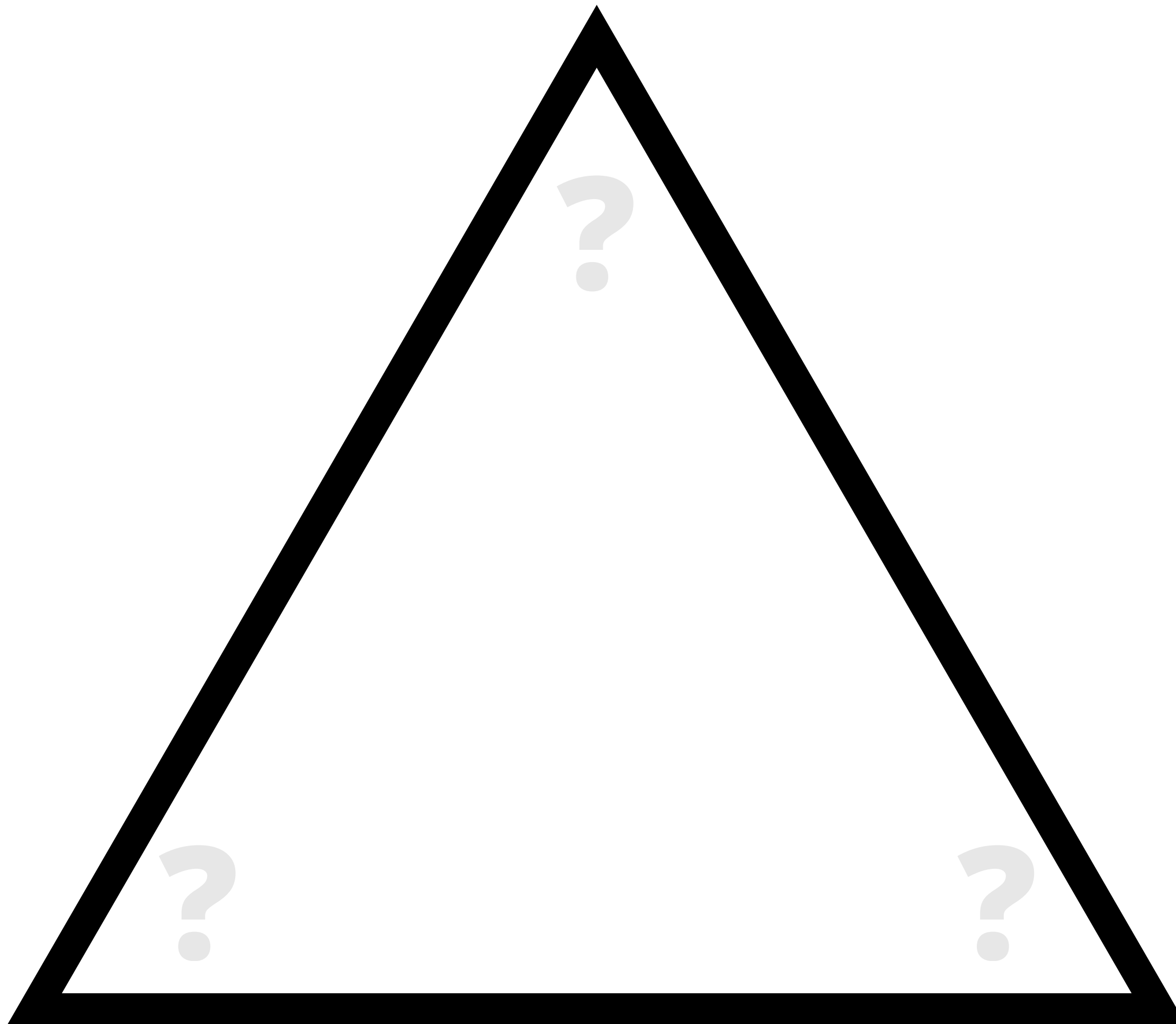


There are  equal groups of 
Each group contains  bees.

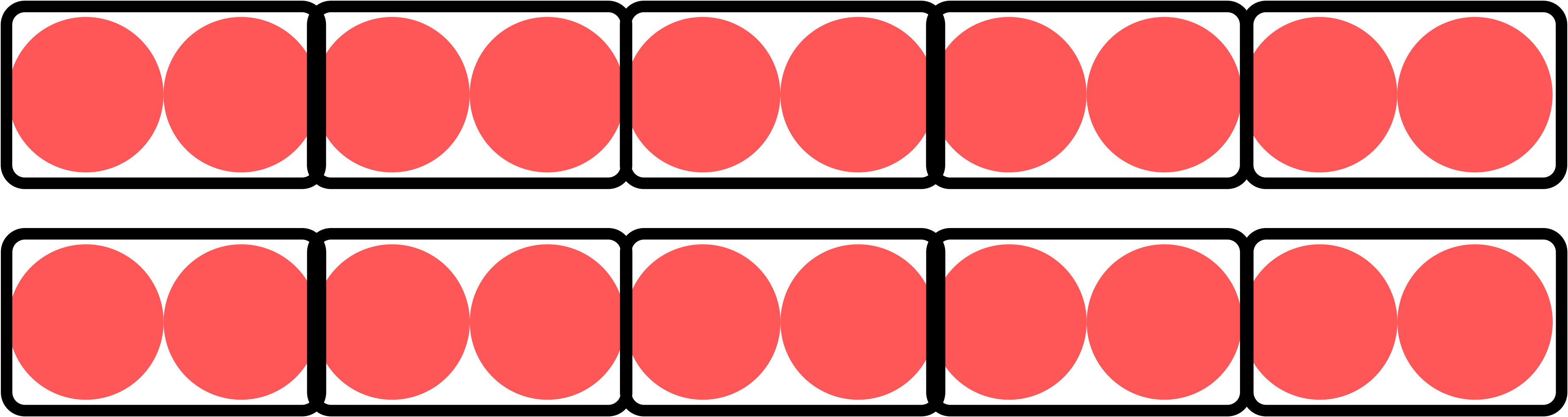




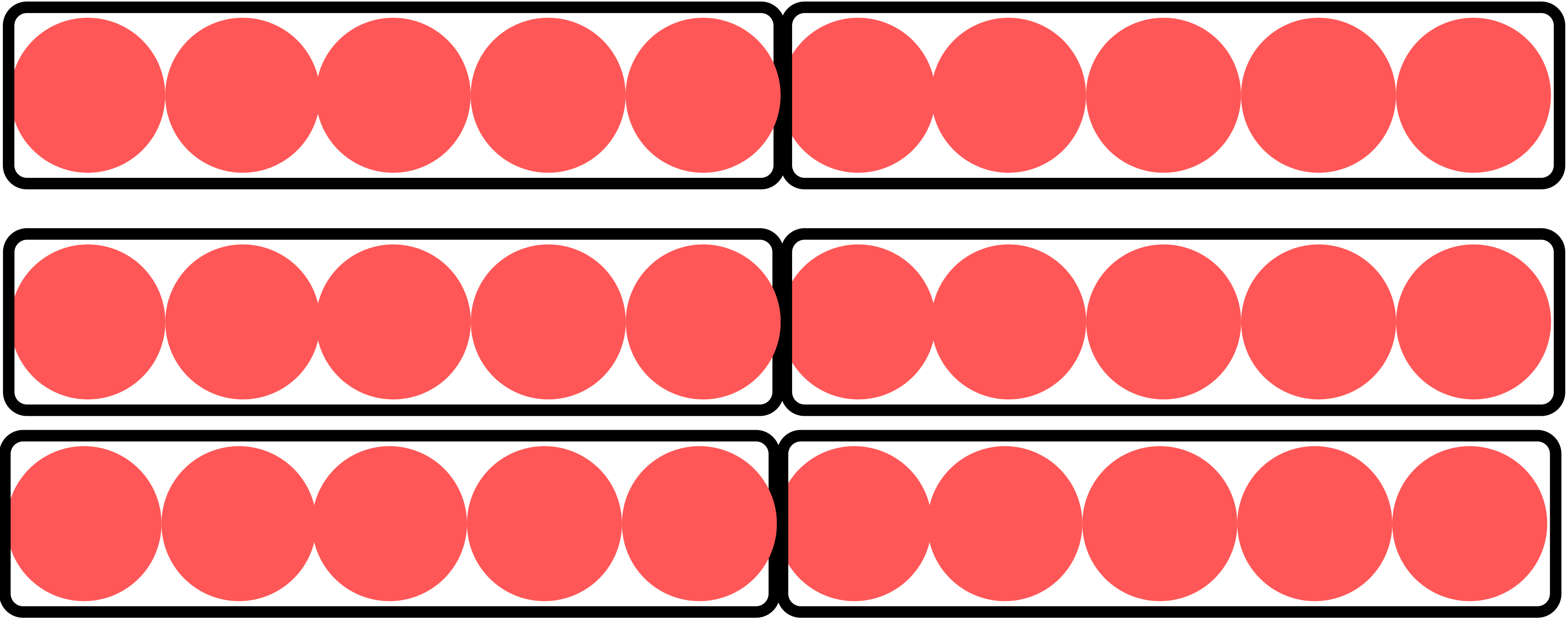




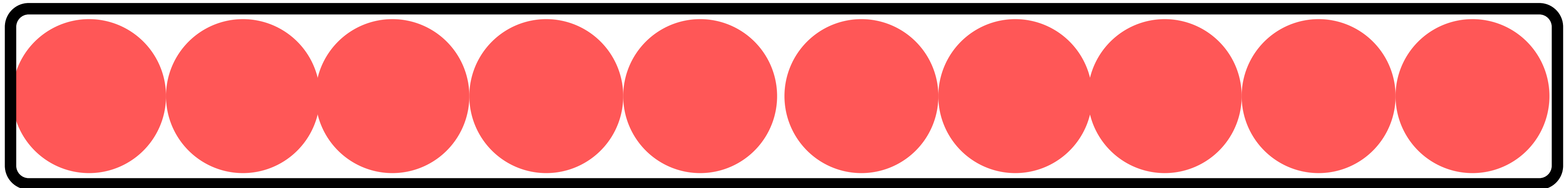
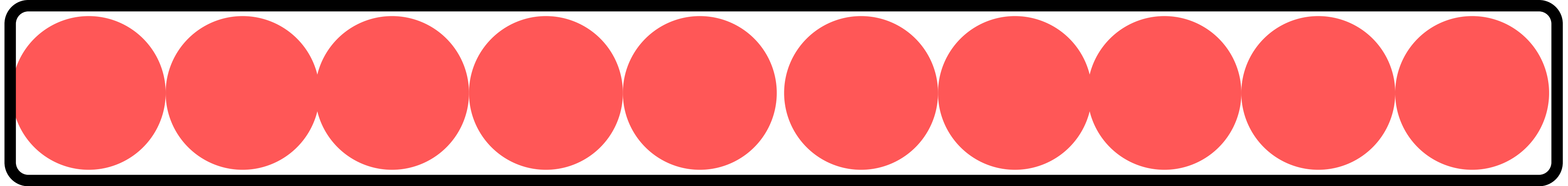
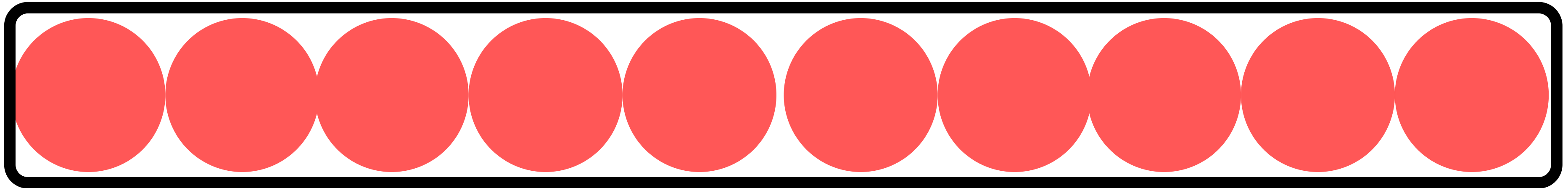
Groups of 2



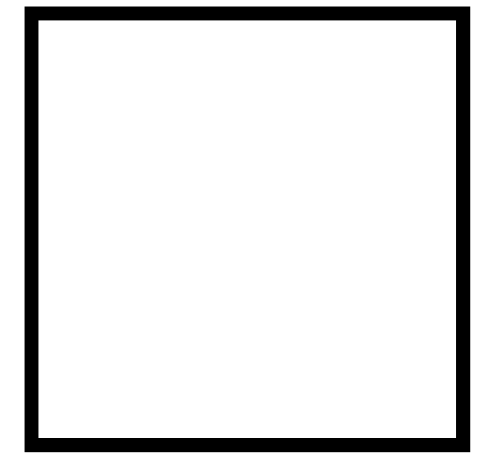
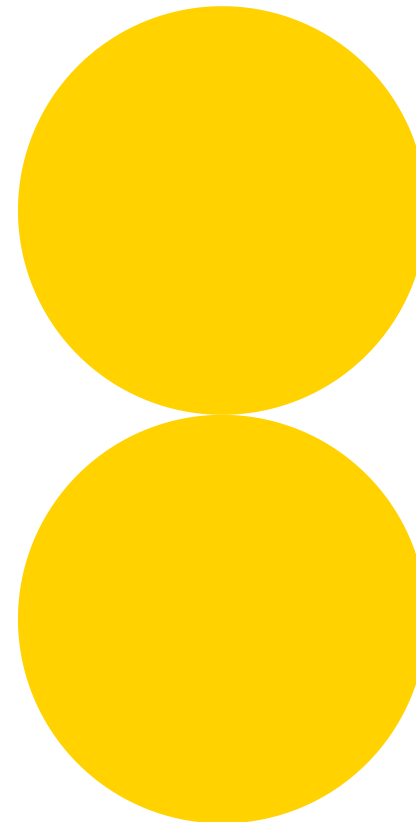
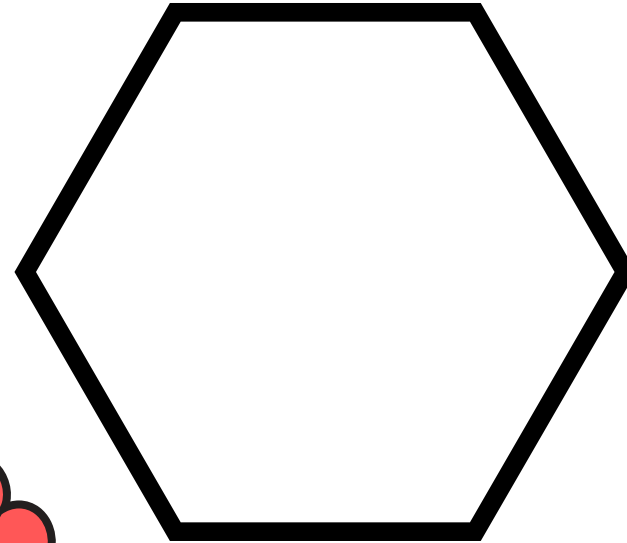
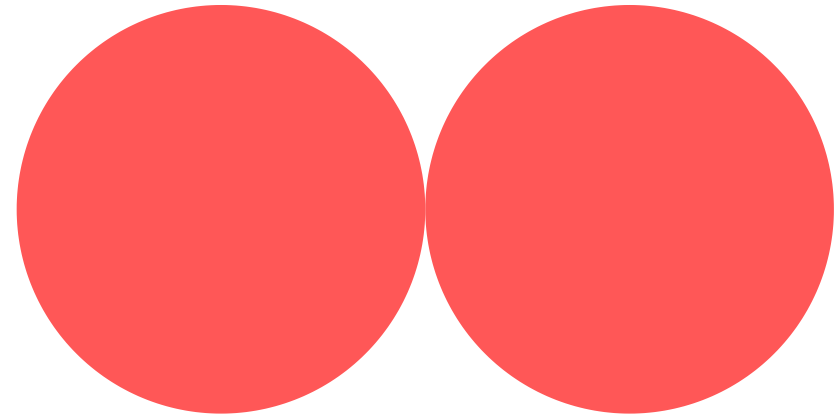
Groups of 5



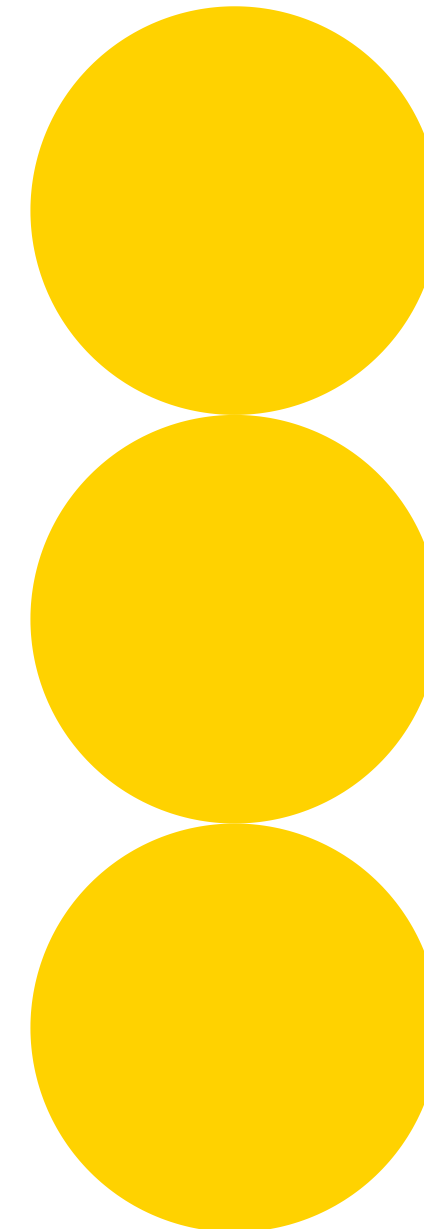
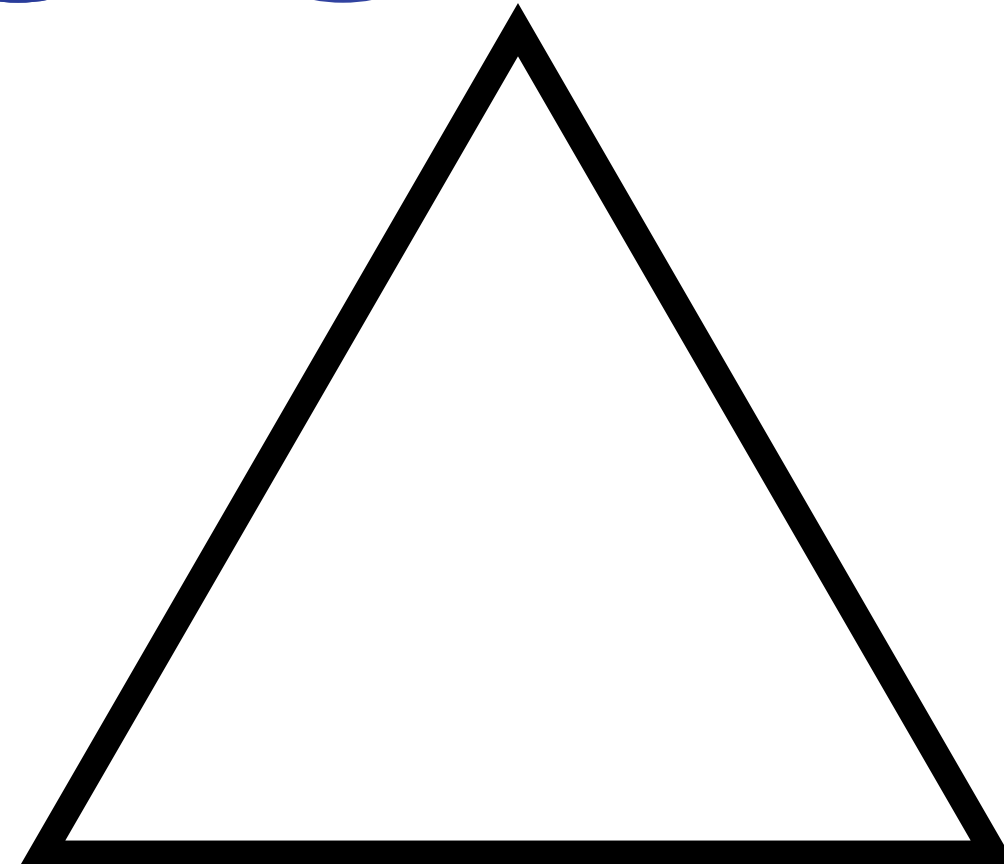
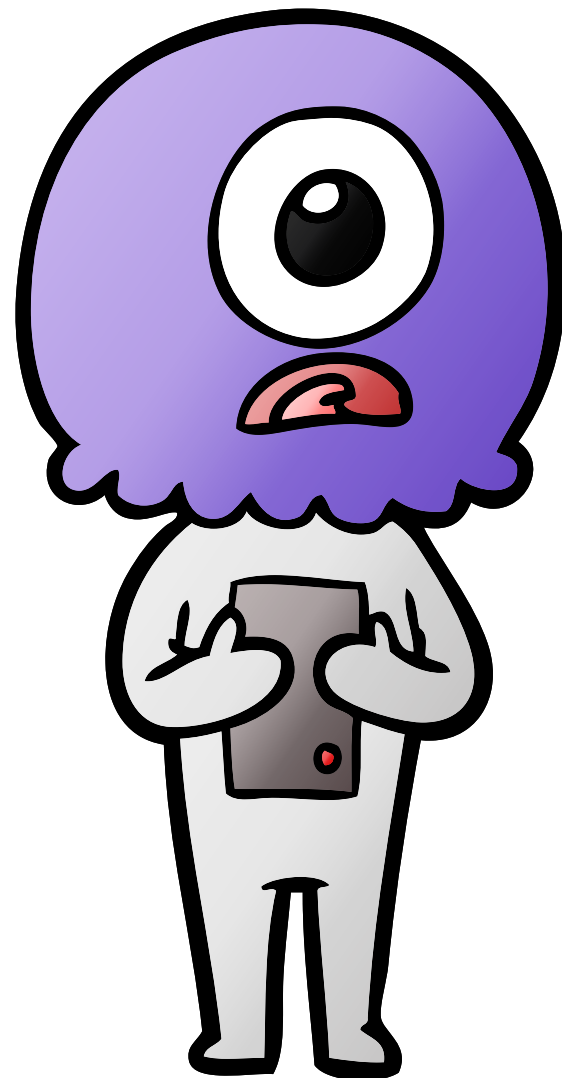
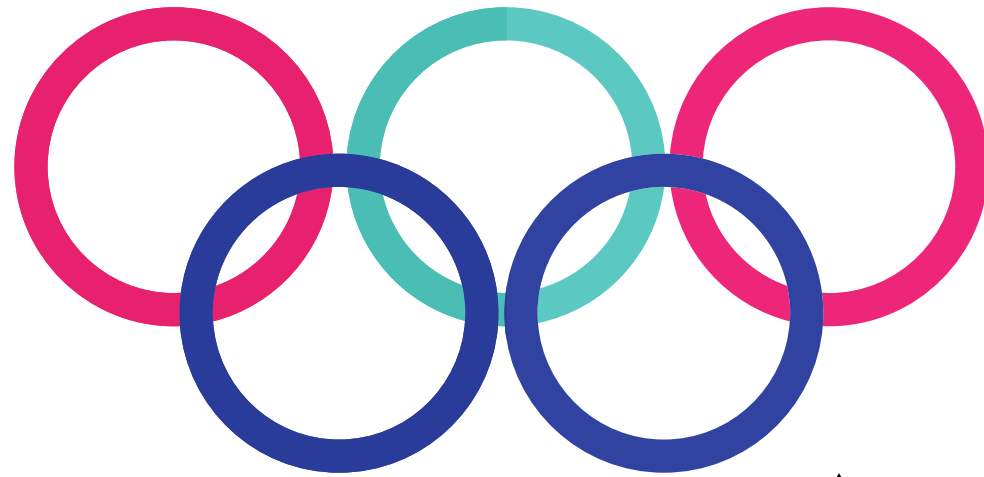
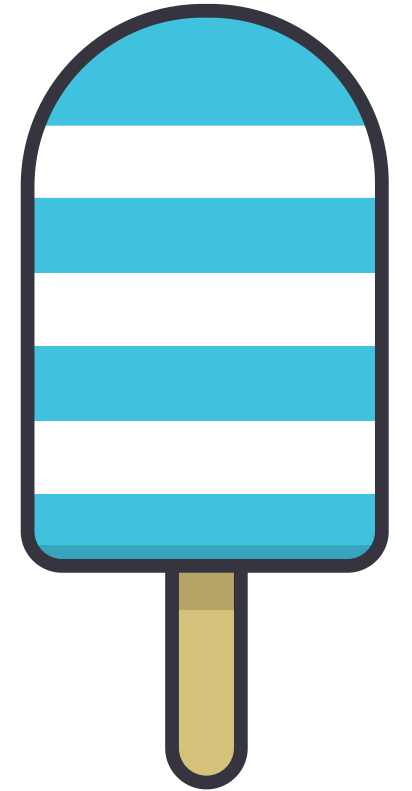
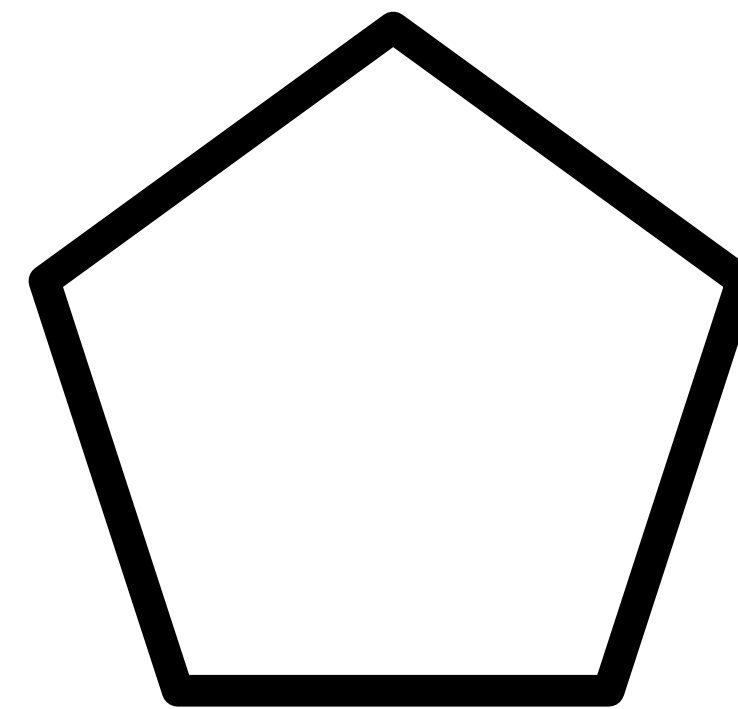
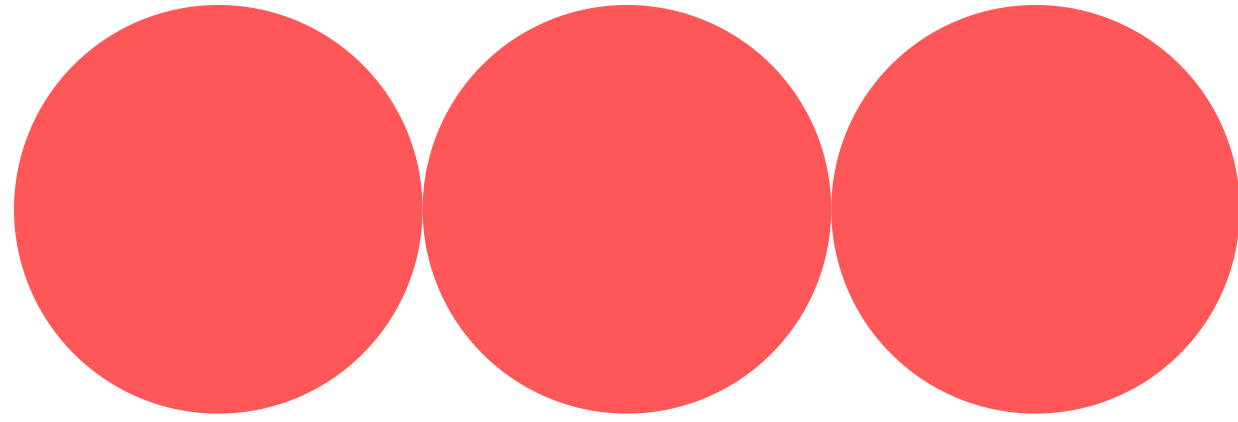
Groups of 10



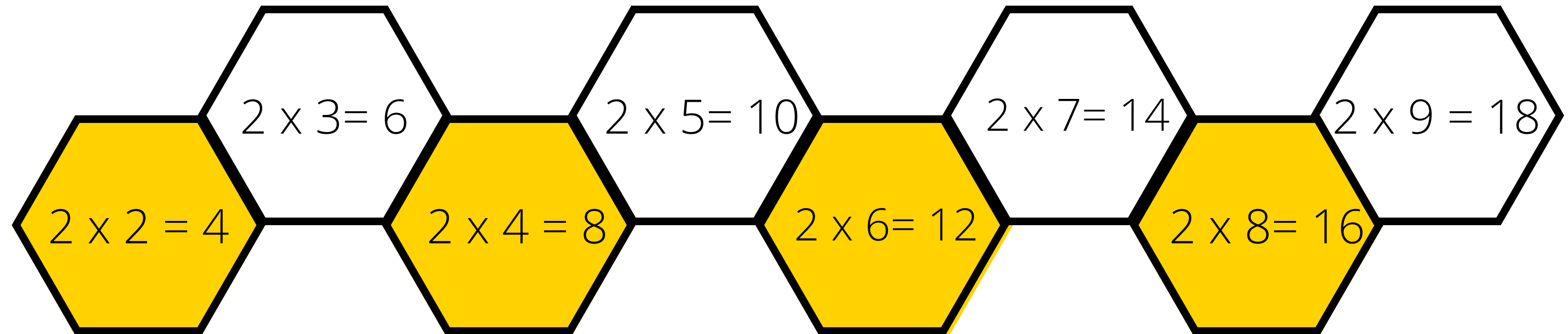
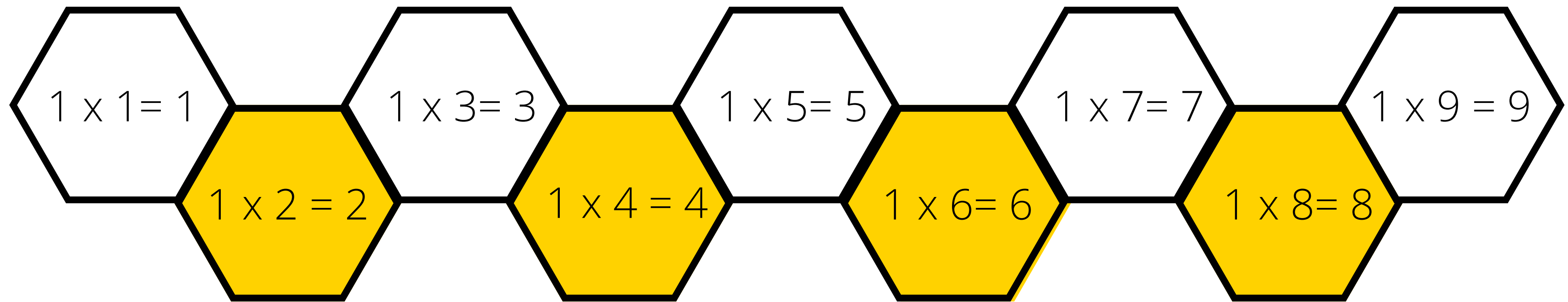
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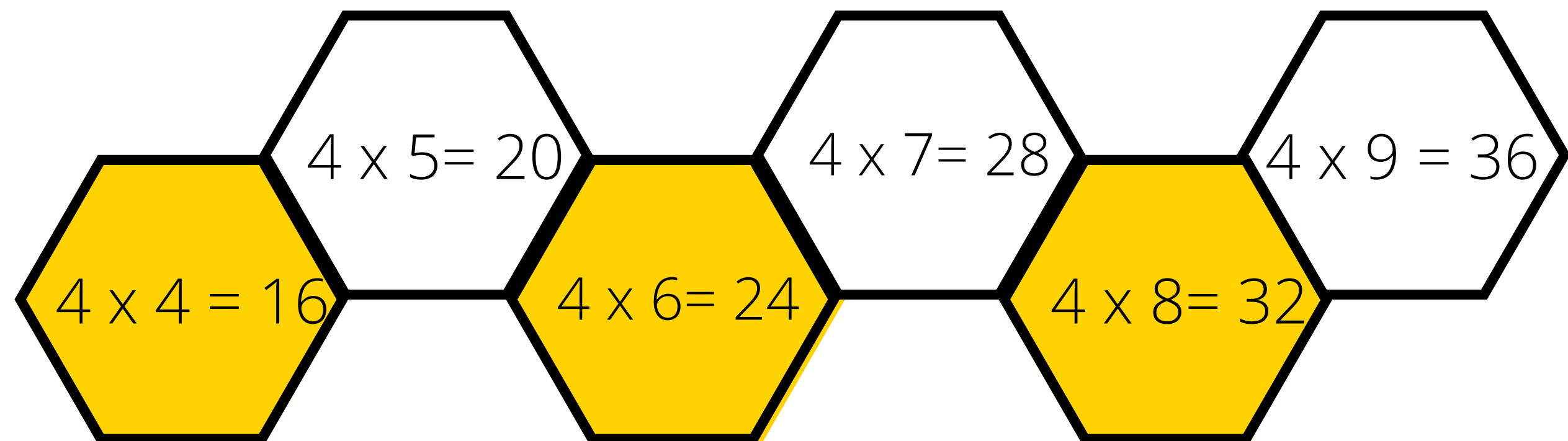
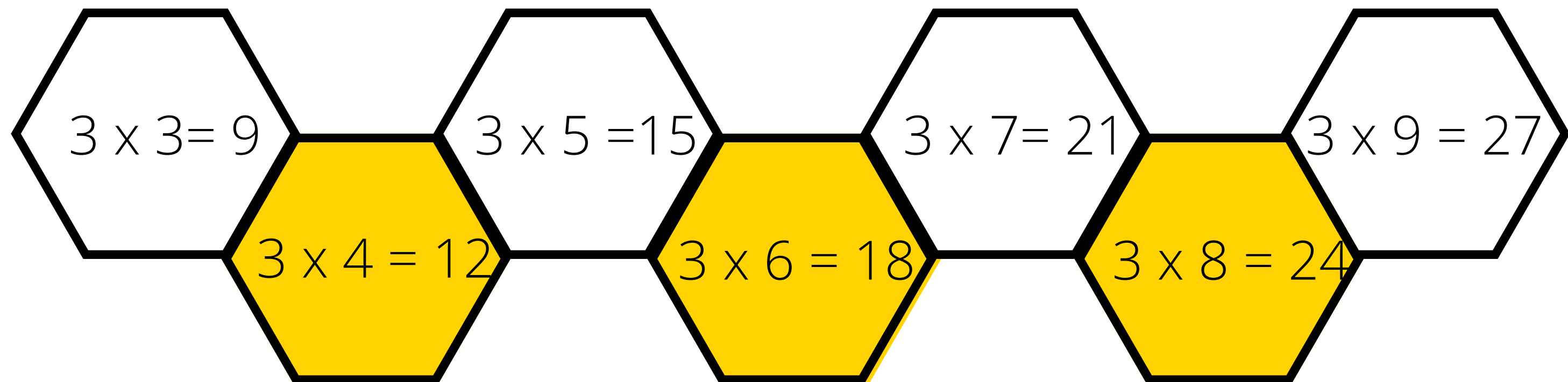


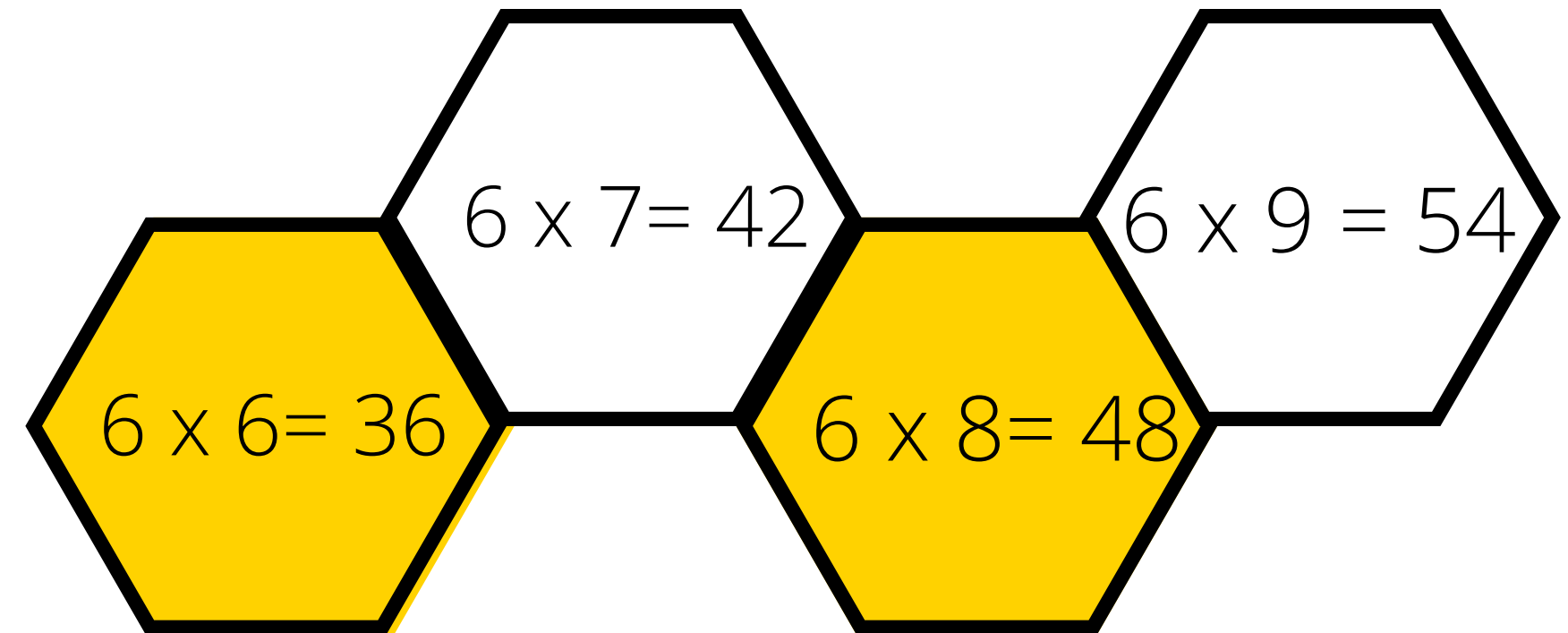
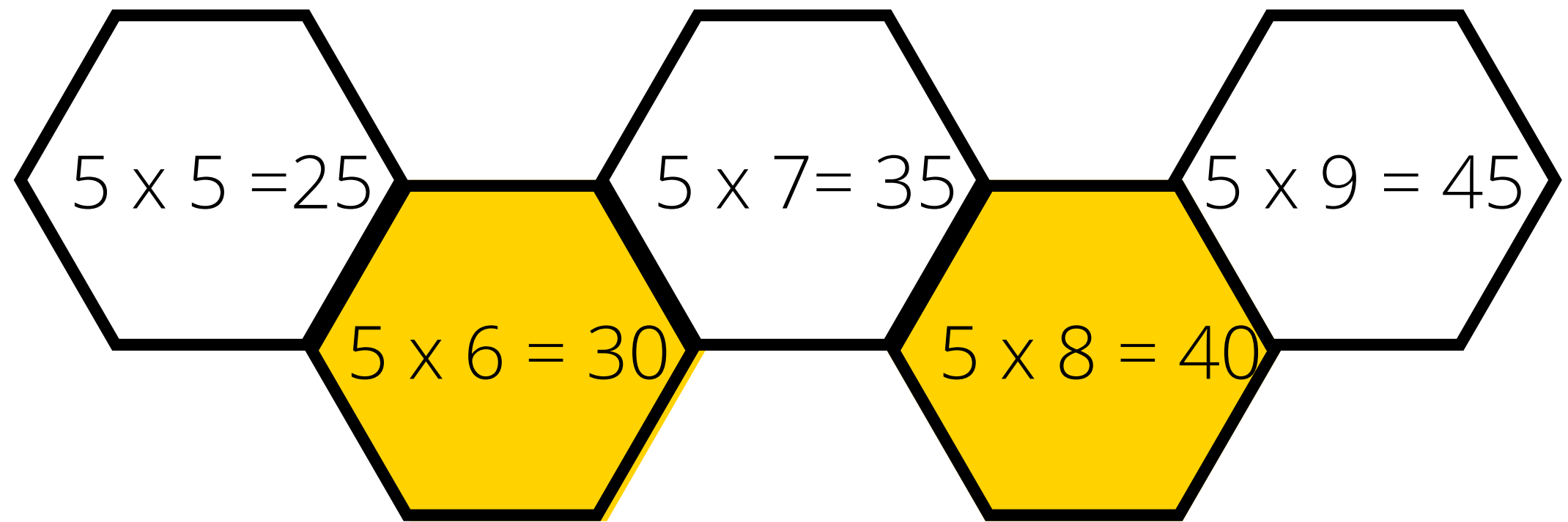
Odd

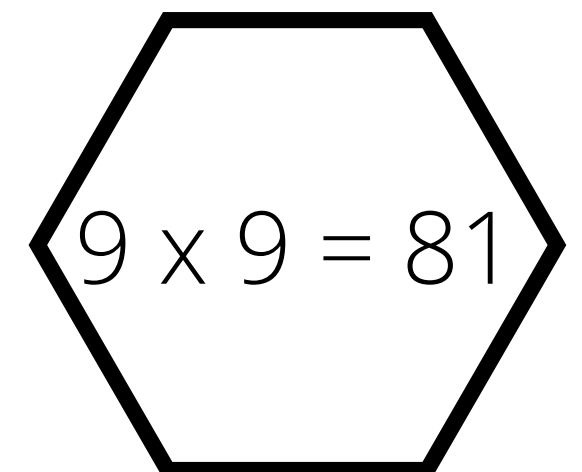
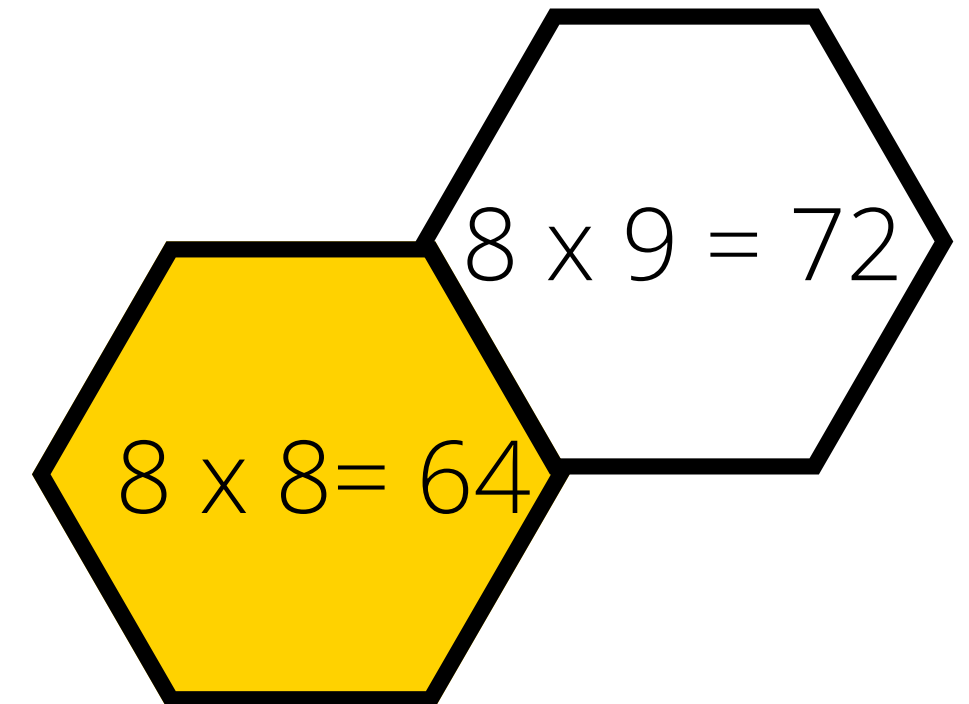
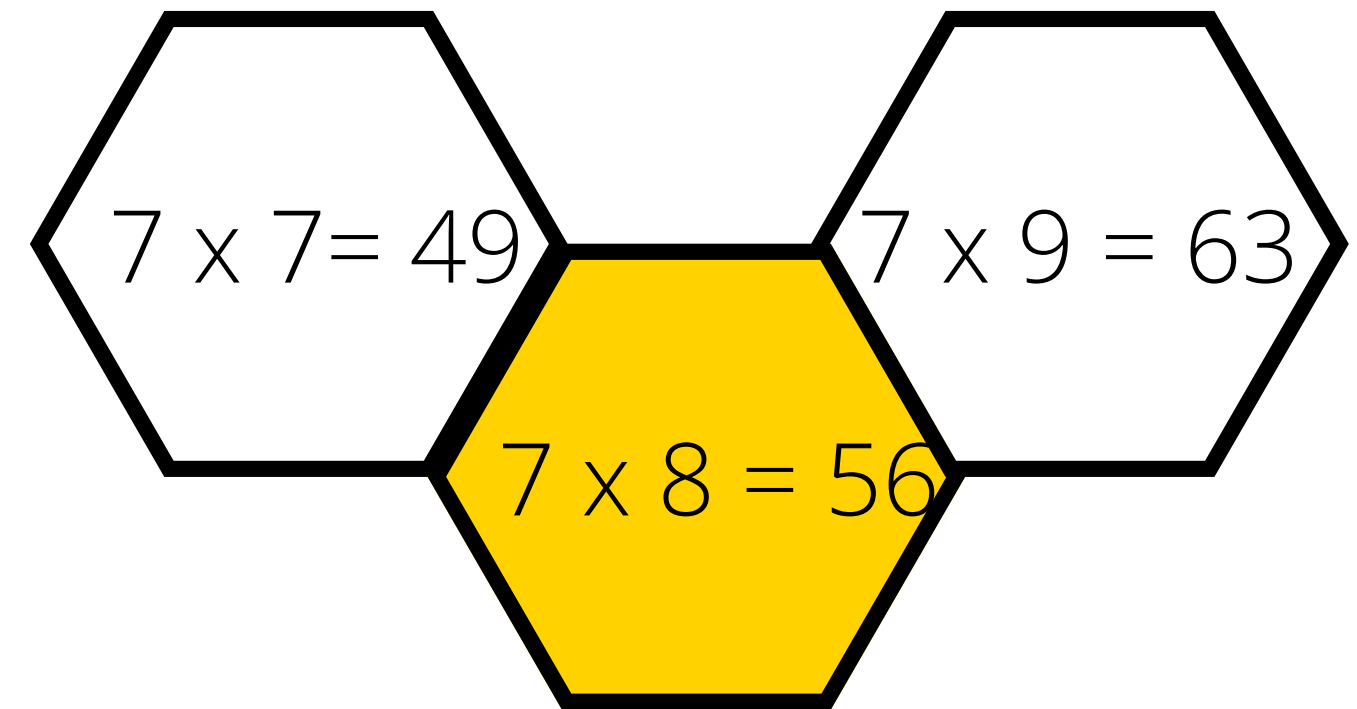


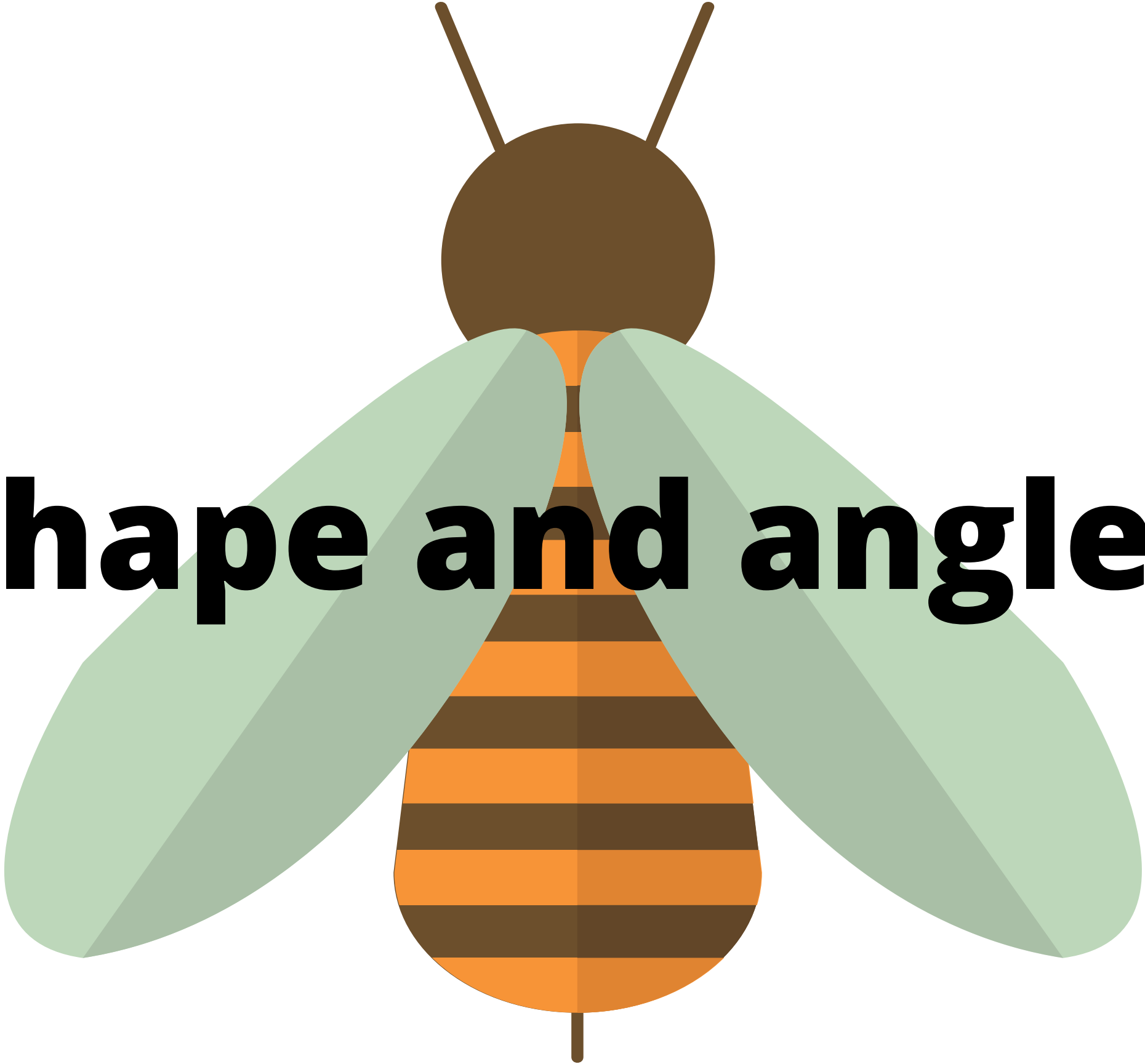
1 × 1 = 1									
1 × 2 = 2	2 × 2 = 4								
1 × 3 = 3	2 × 3 = 6	3 × 3 = 9							
1 × 4 = 4	2 × 4 = 8	3 × 4 = 12	4 × 4 = 16						
1 × 5 = 5	2 × 5 = 10	3 × 5 = 15	4 × 5 = 20	5 × 5 = 25					
1 × 6 = 6	2 × 6 = 12	3 × 6 = 18	4 × 6 = 24	5 × 6 = 30	6 × 6 = 36				
1 × 7 = 7	2 × 7 = 14	3 × 7 = 21	4 × 7 = 28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



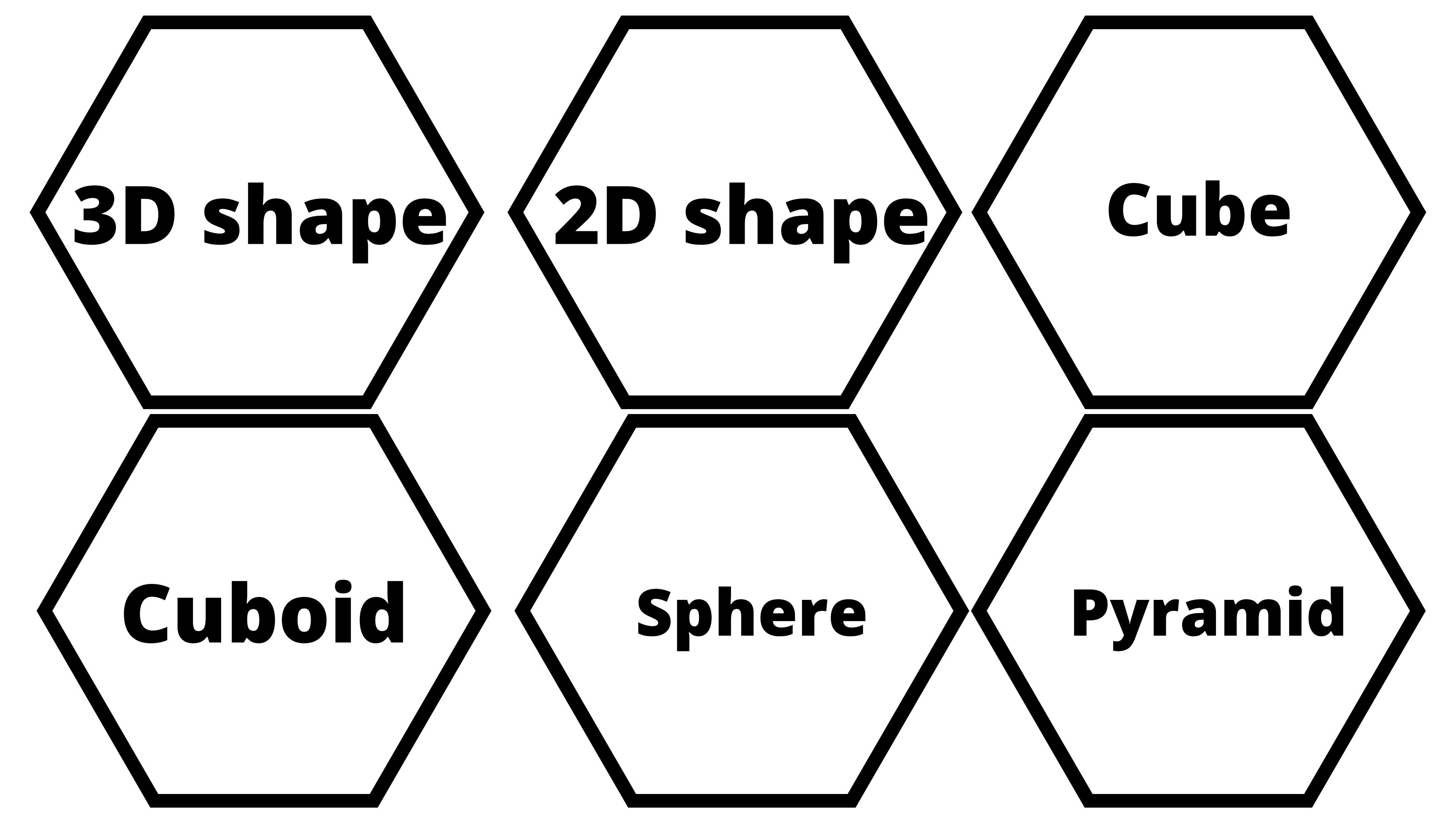








Shape and angles



3D shape

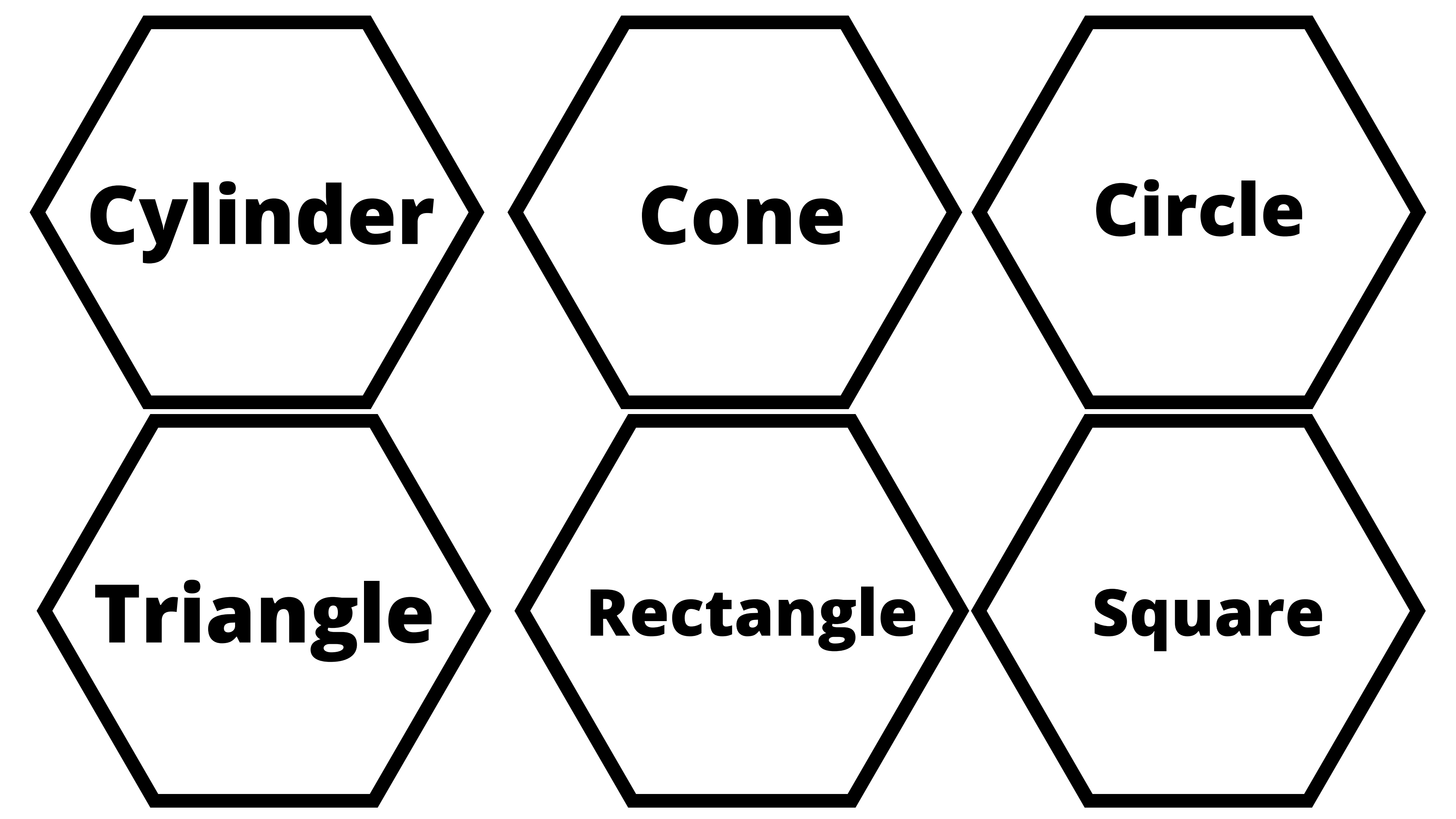
2D shape

Cube

Cuboid

Sphere

Pyramid



Cylinder

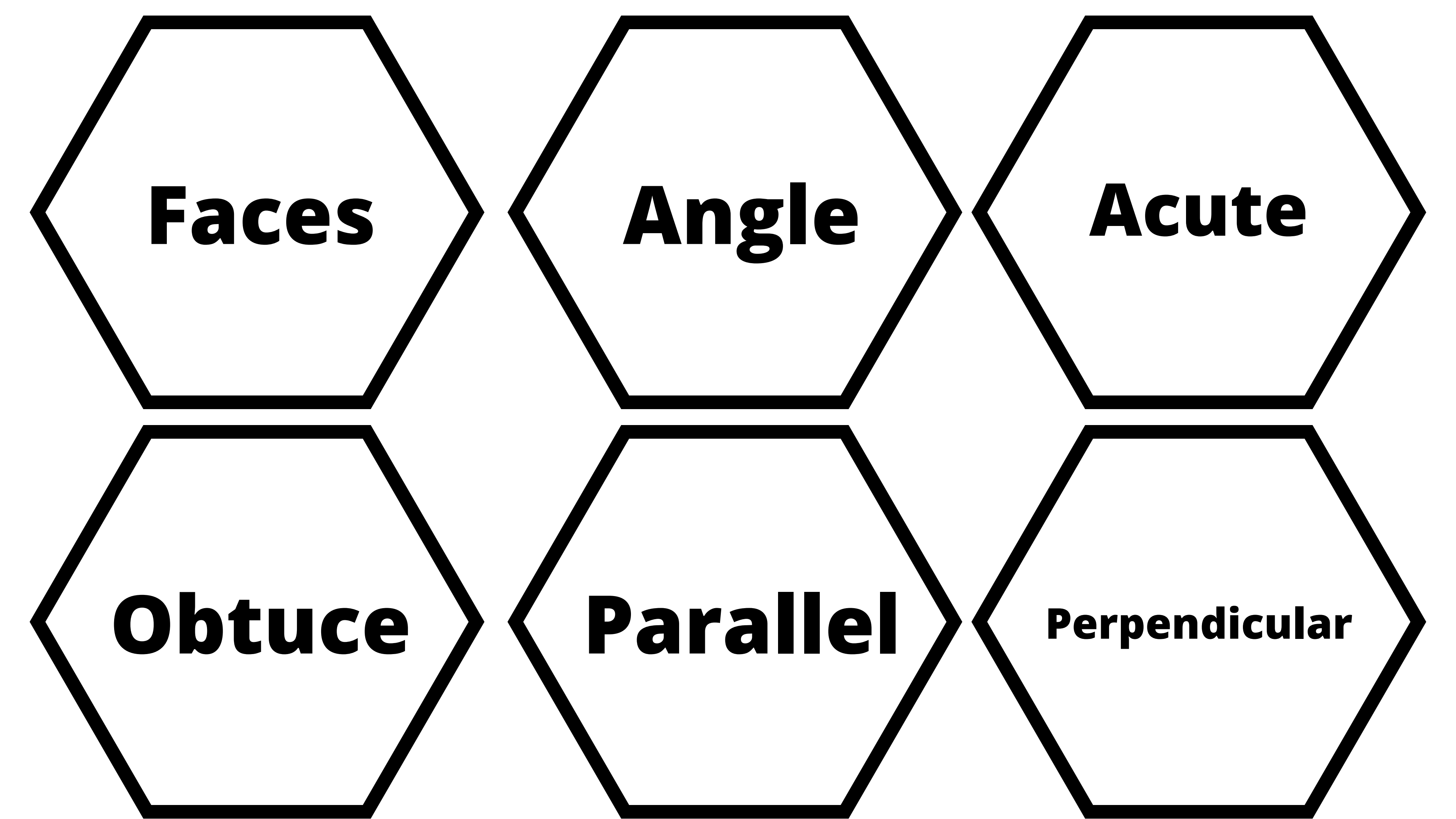
Cone

Circle

Triangle

Rectangle

Square



Faces

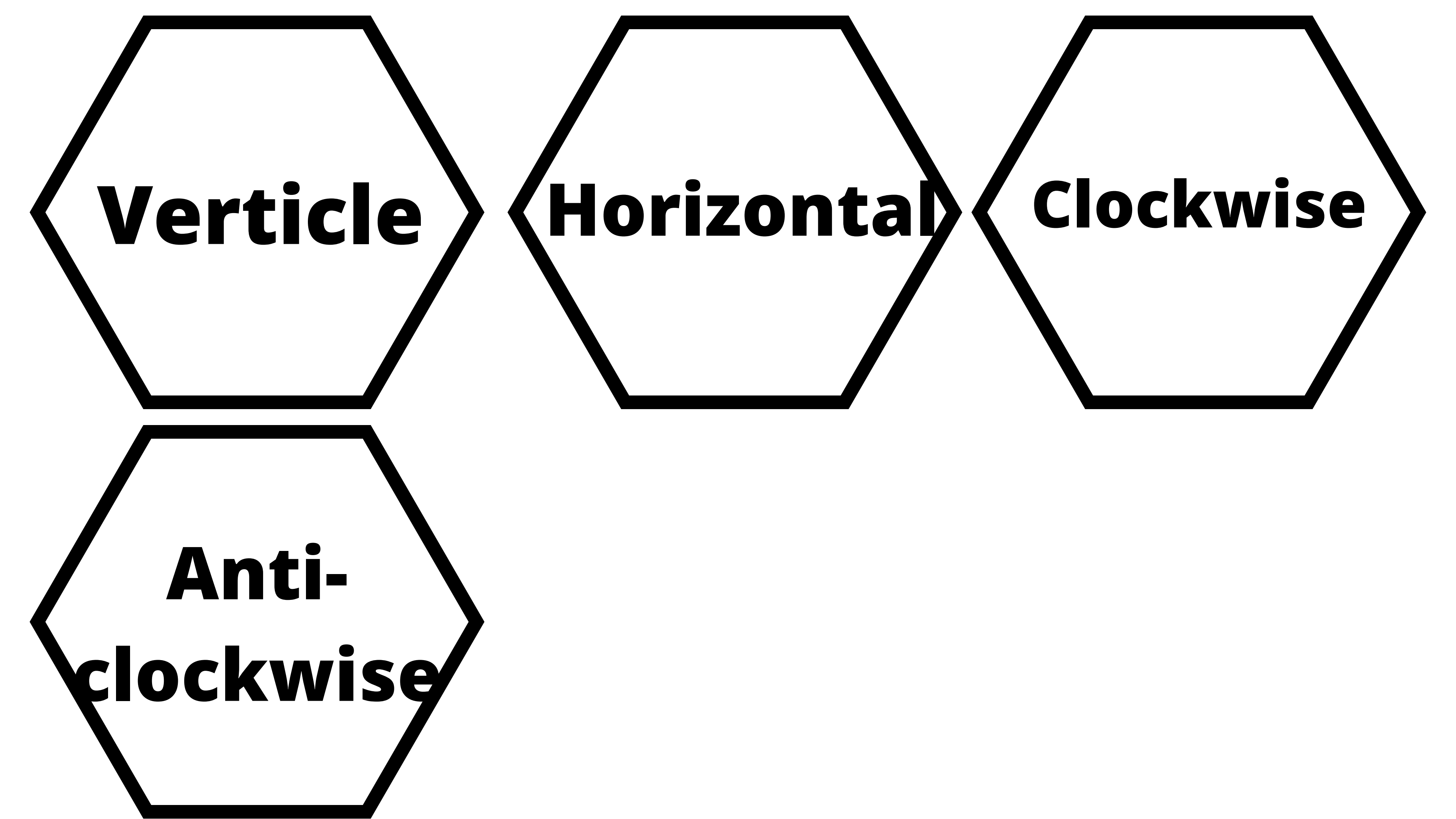
Angle

Acute

Obtuse

Parallel

Perpendicular



Verticle

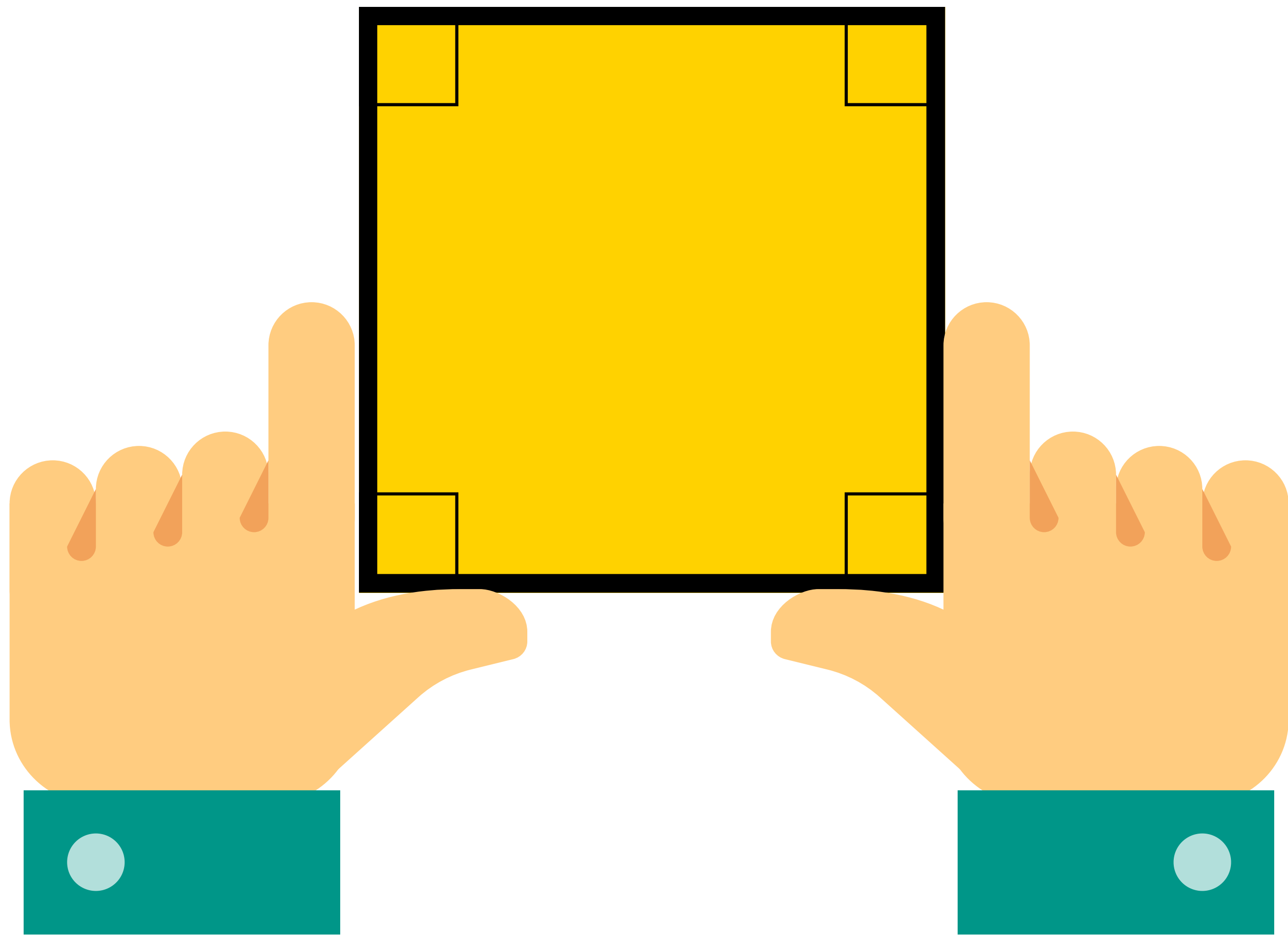
Horizontal

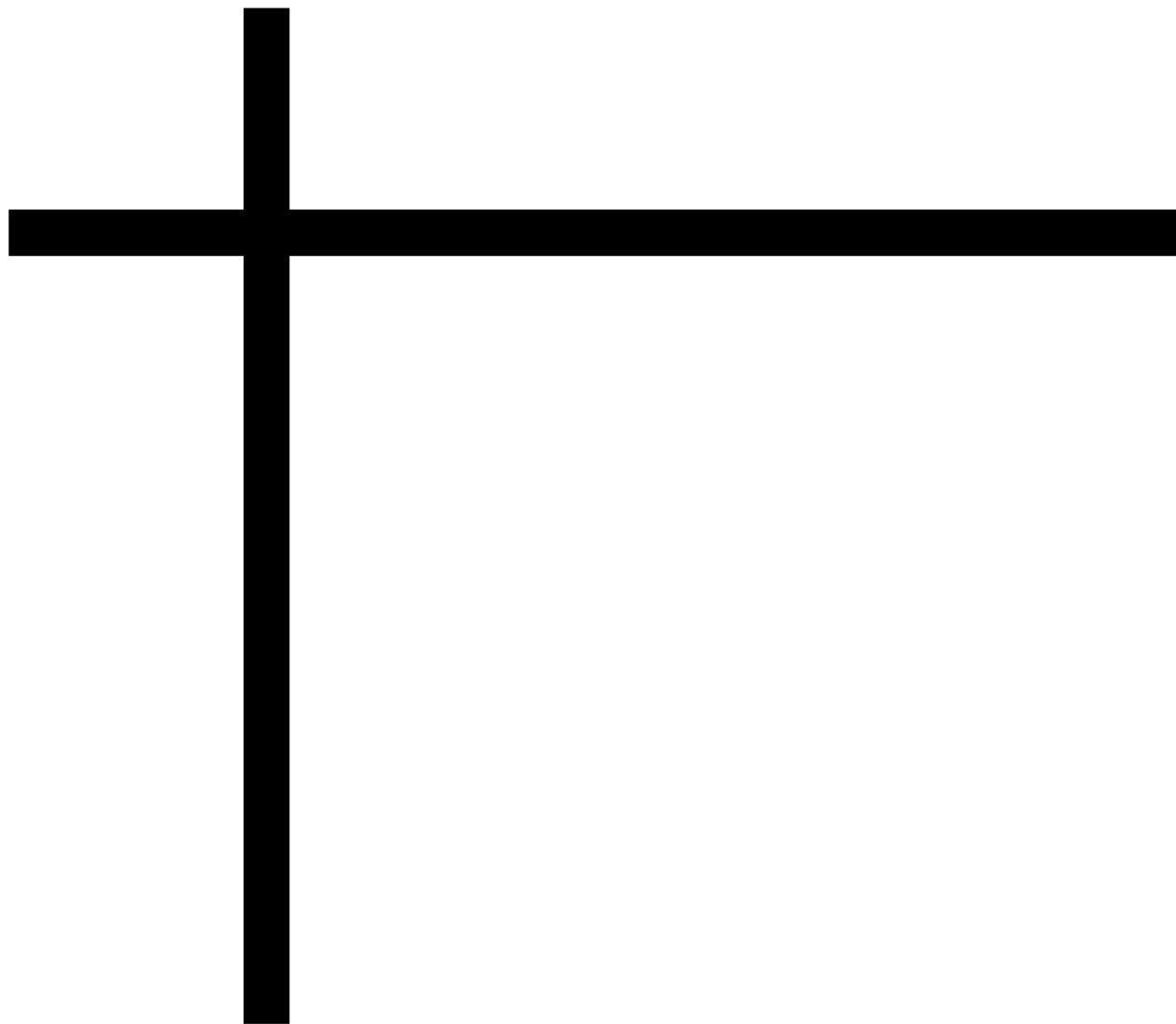
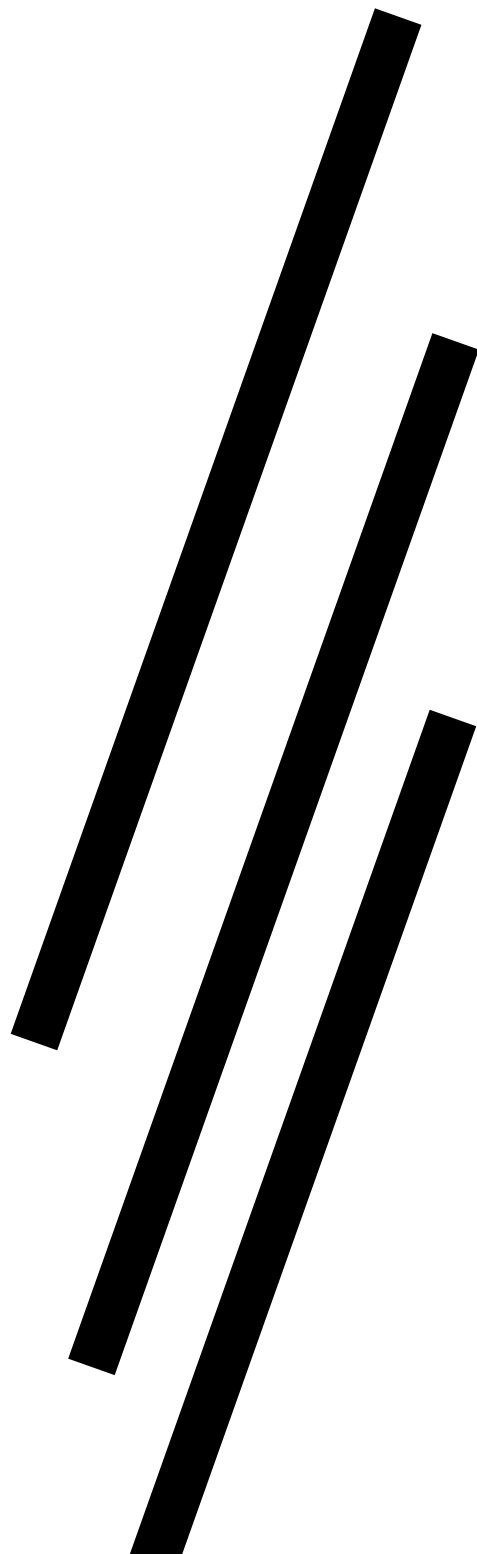
Clockwise

**Anti-
clockwise**

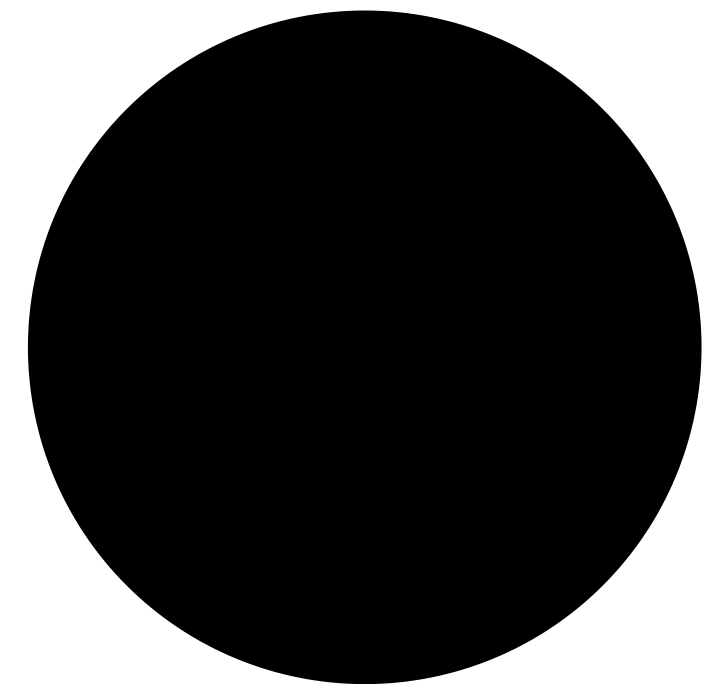
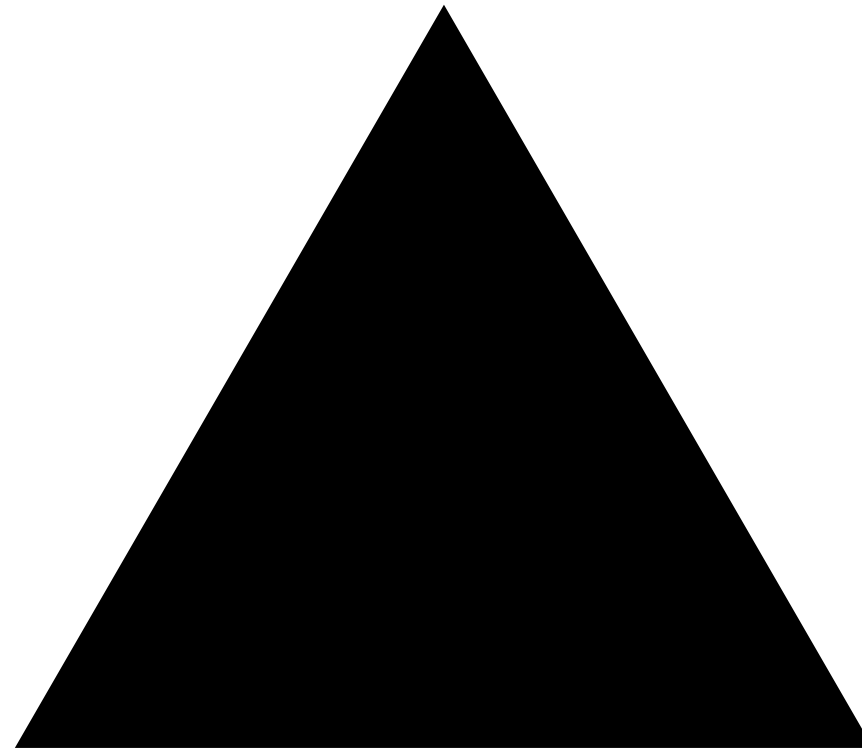
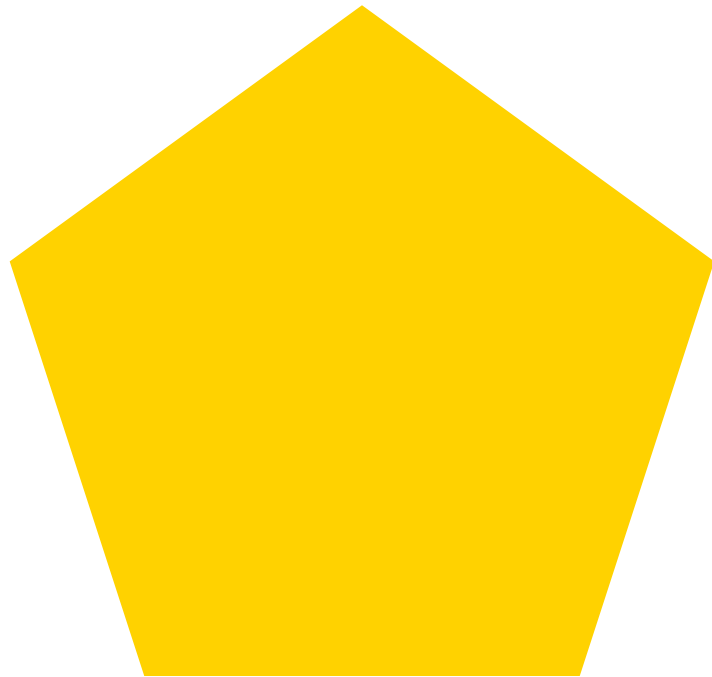
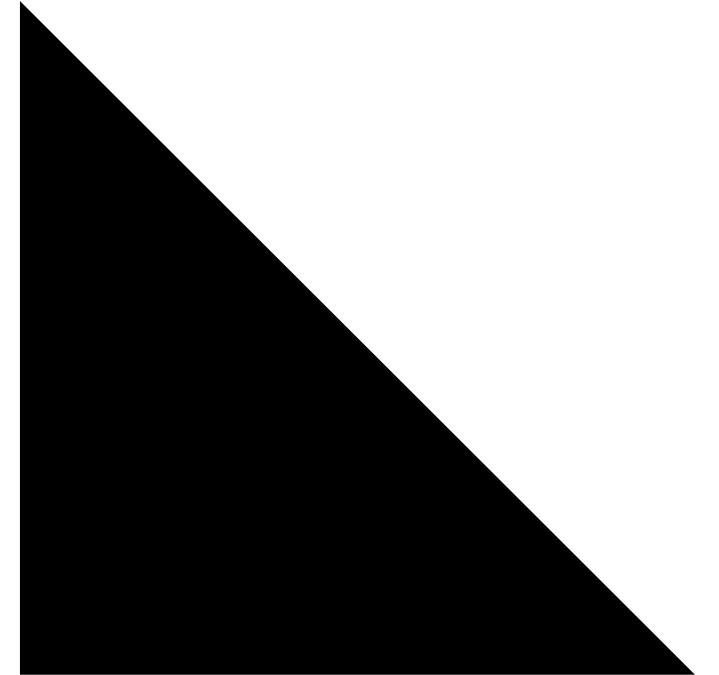
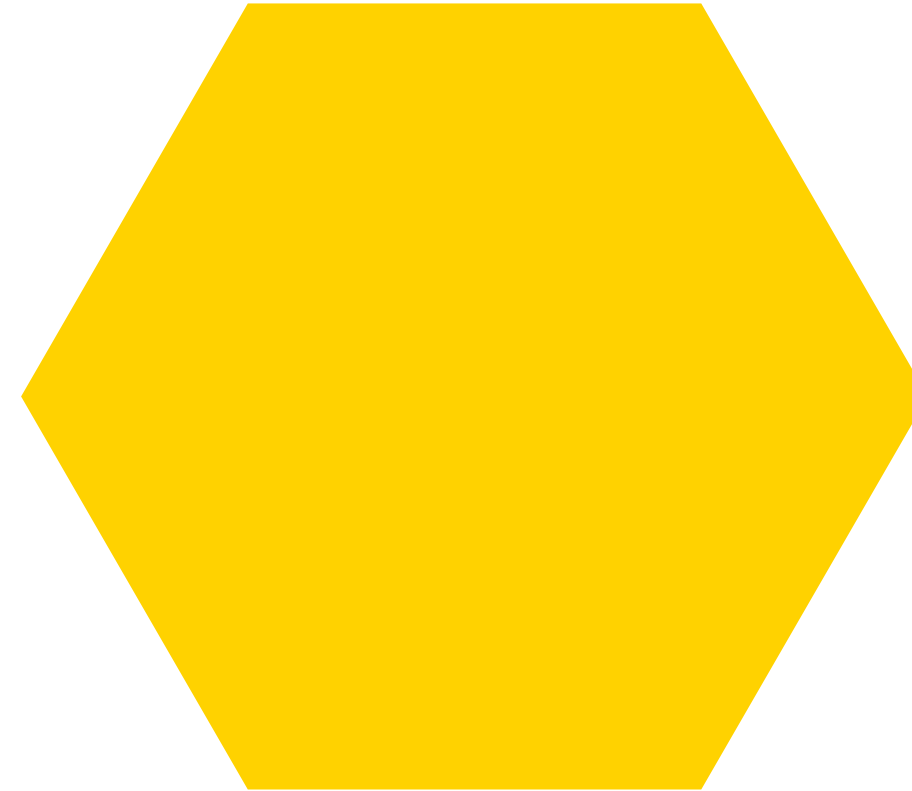
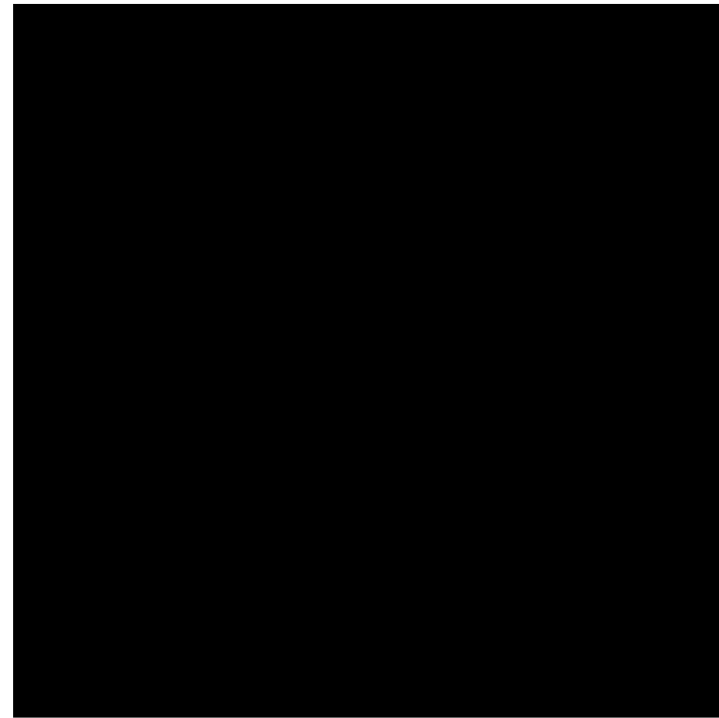
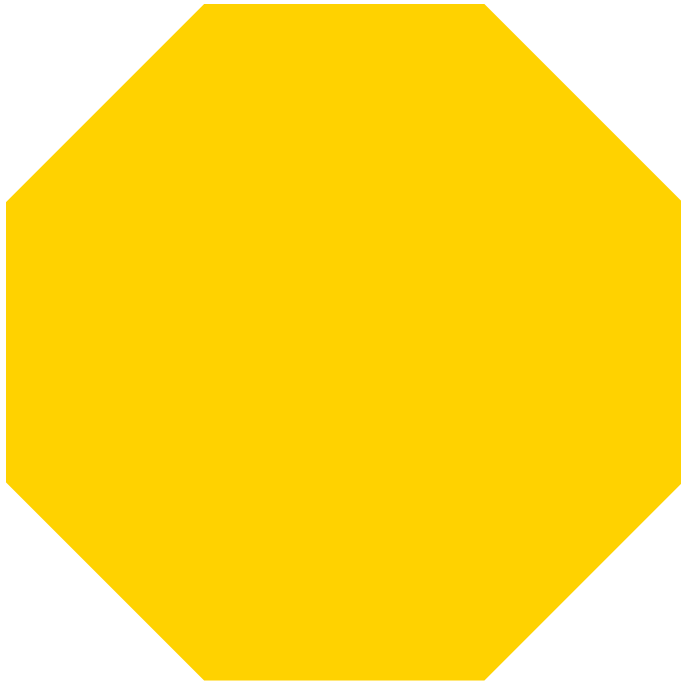
Direction



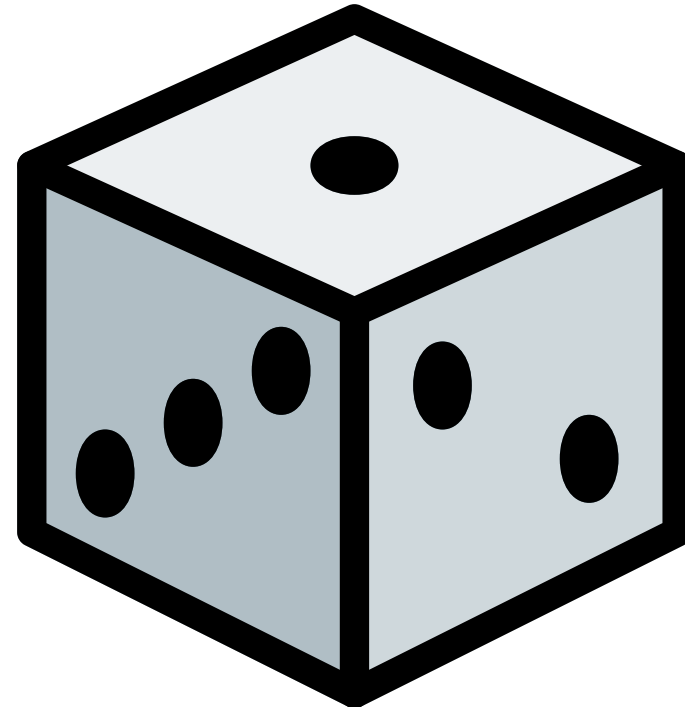




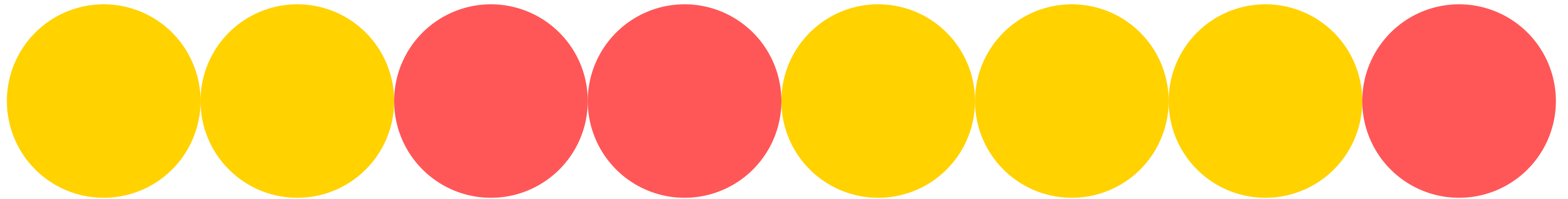
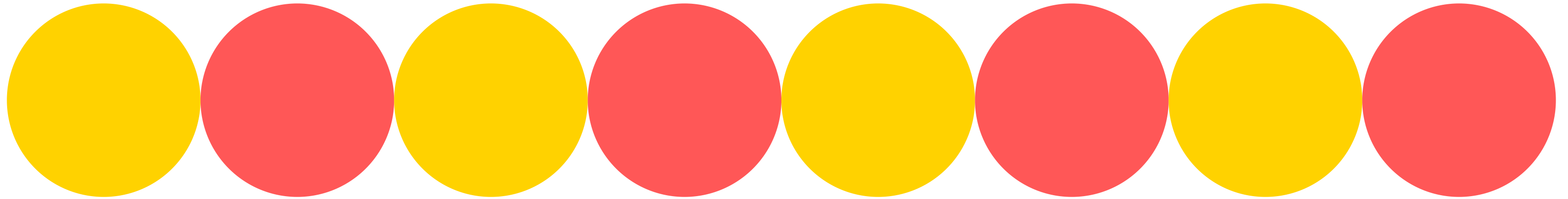
Name the shapes



Name the shapes



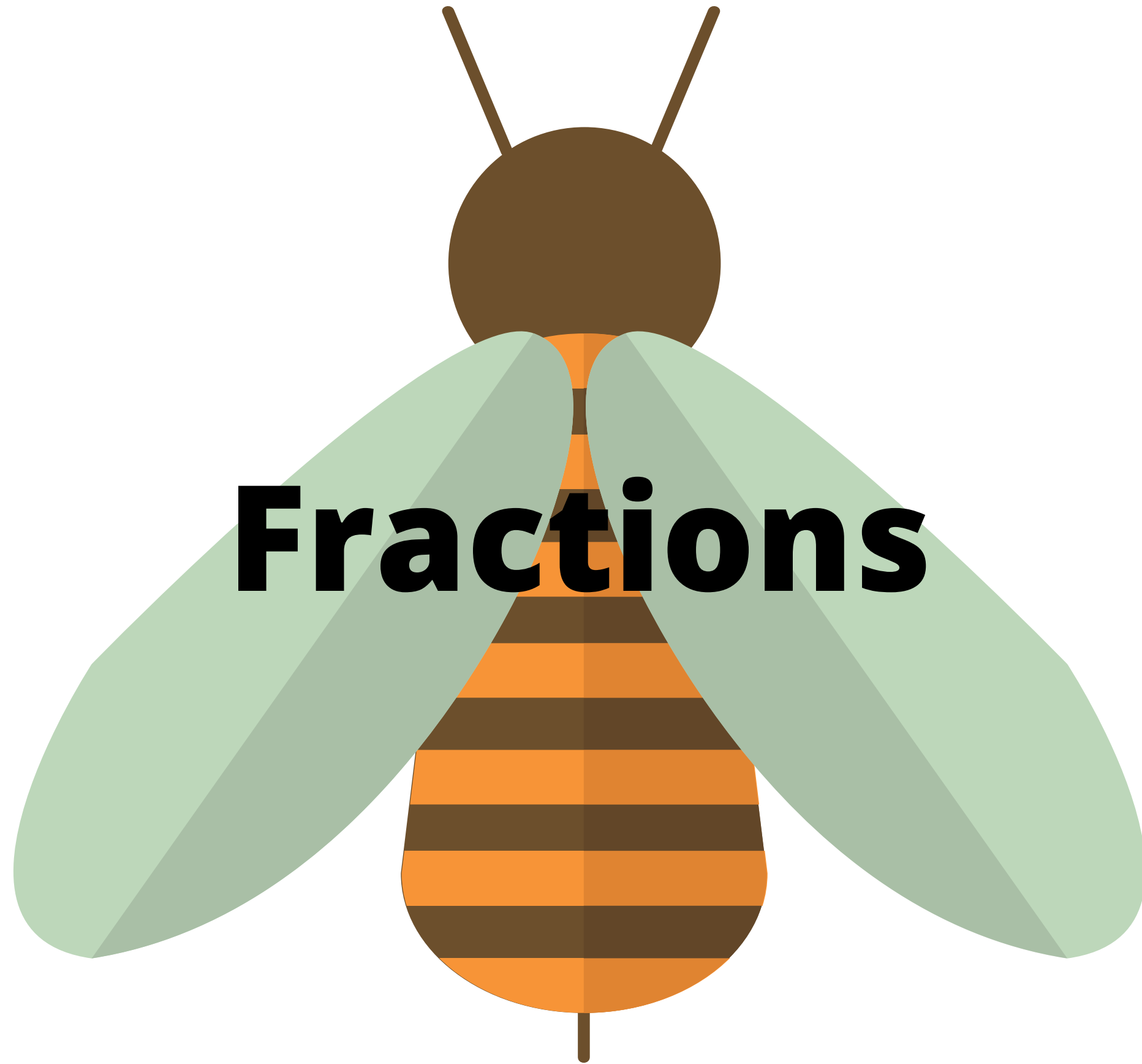
Patterns

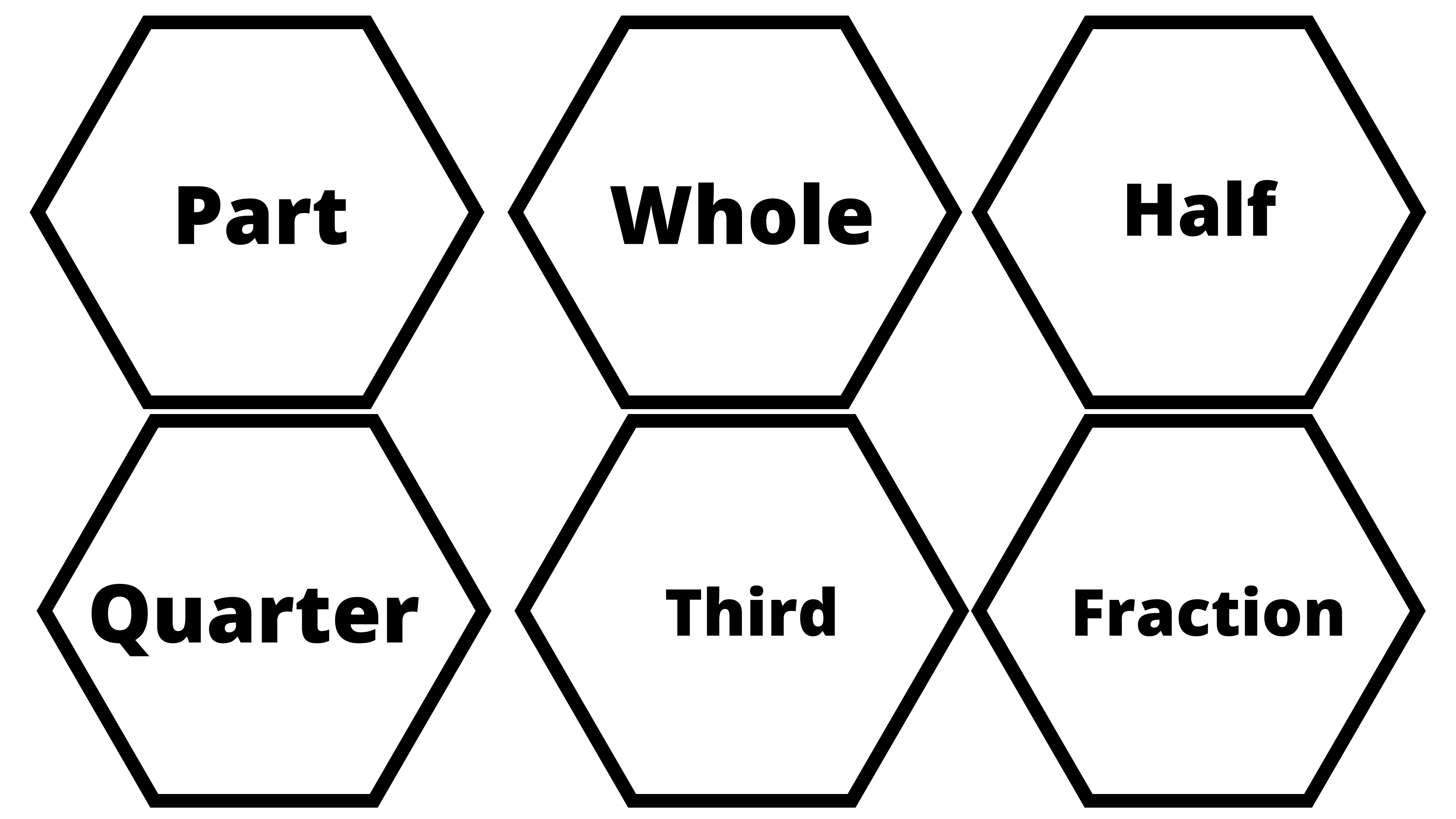




Patterns







Part

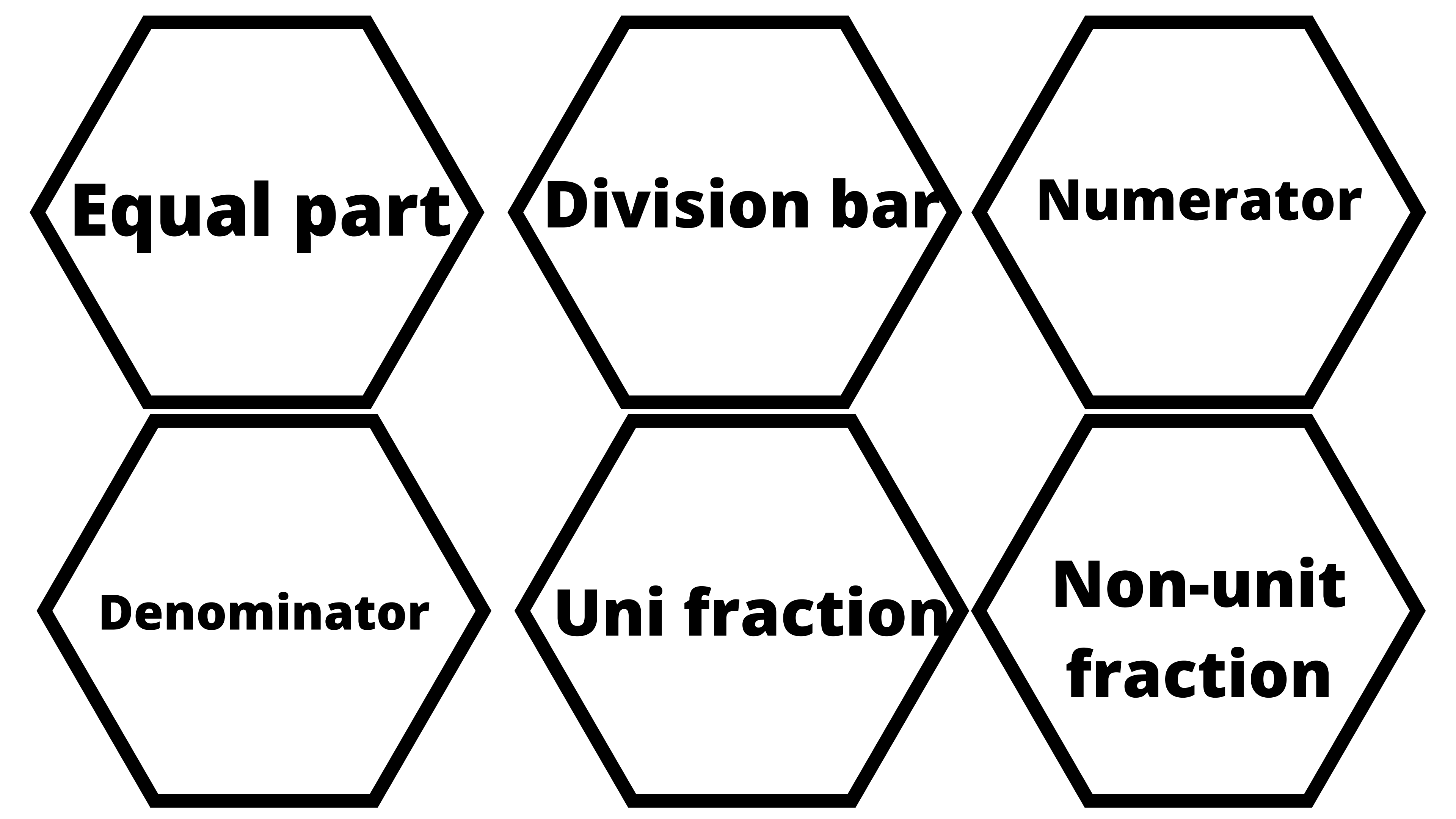
Whole

Half

Quarter

Third

Fraction



Equal part

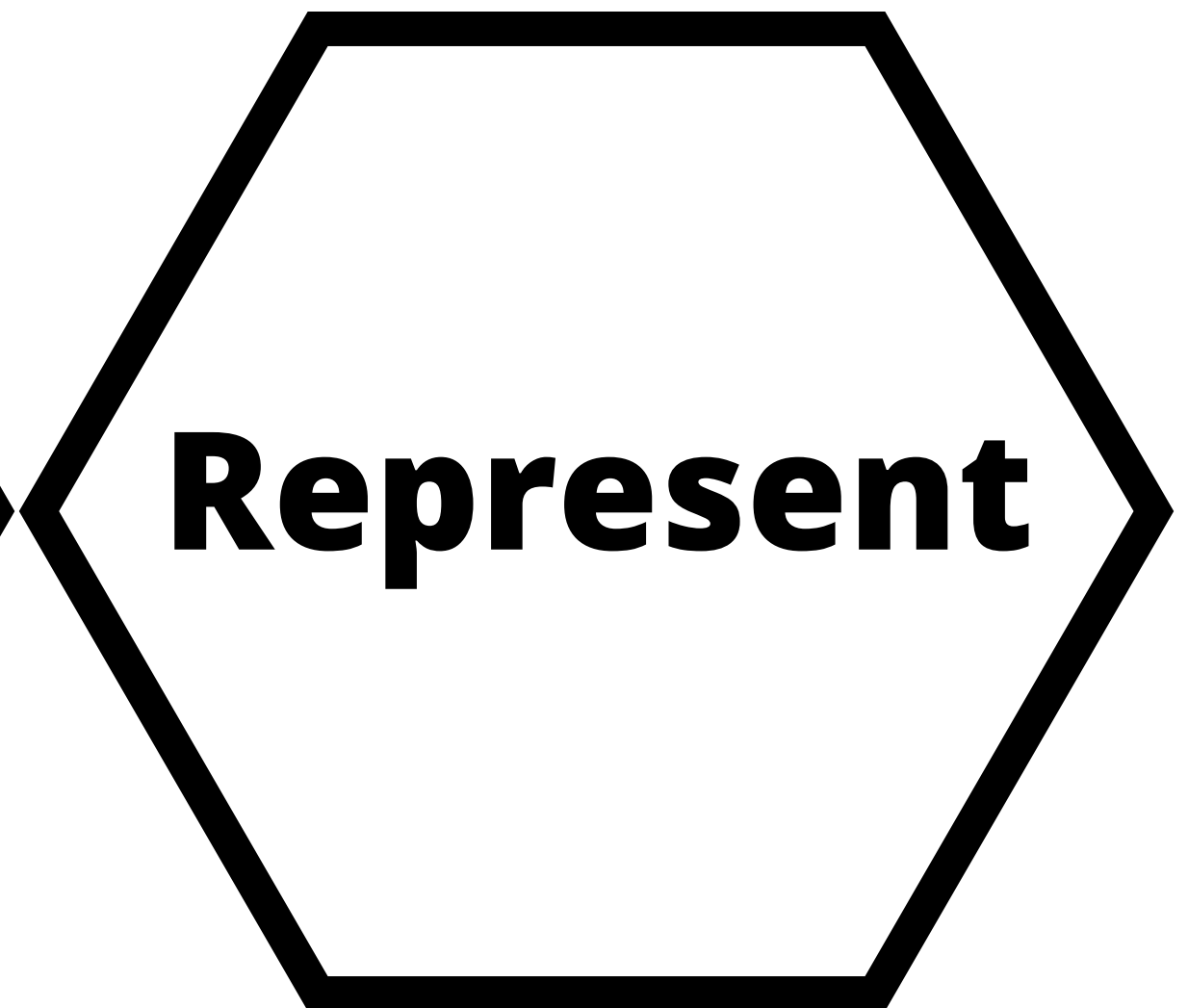
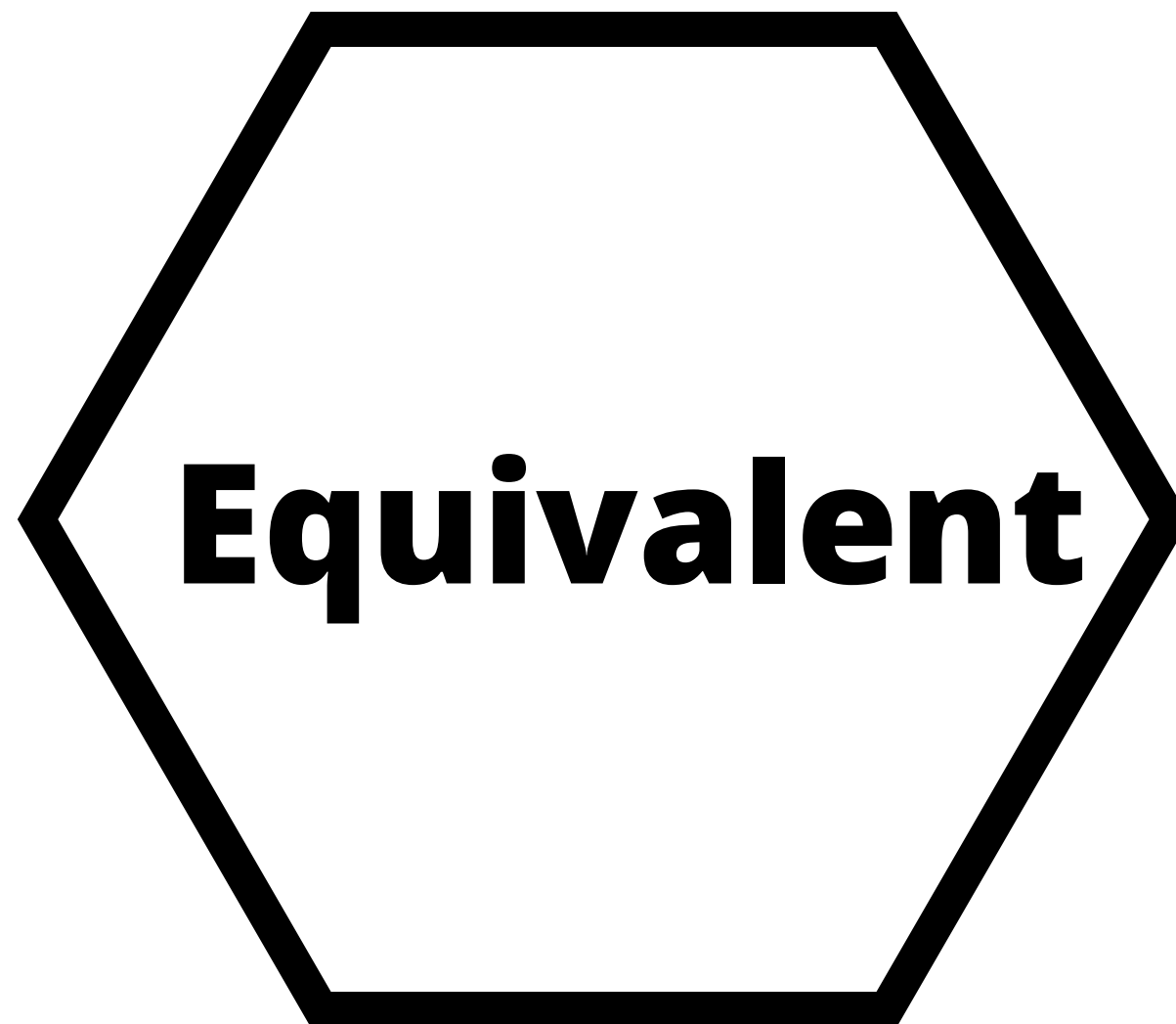
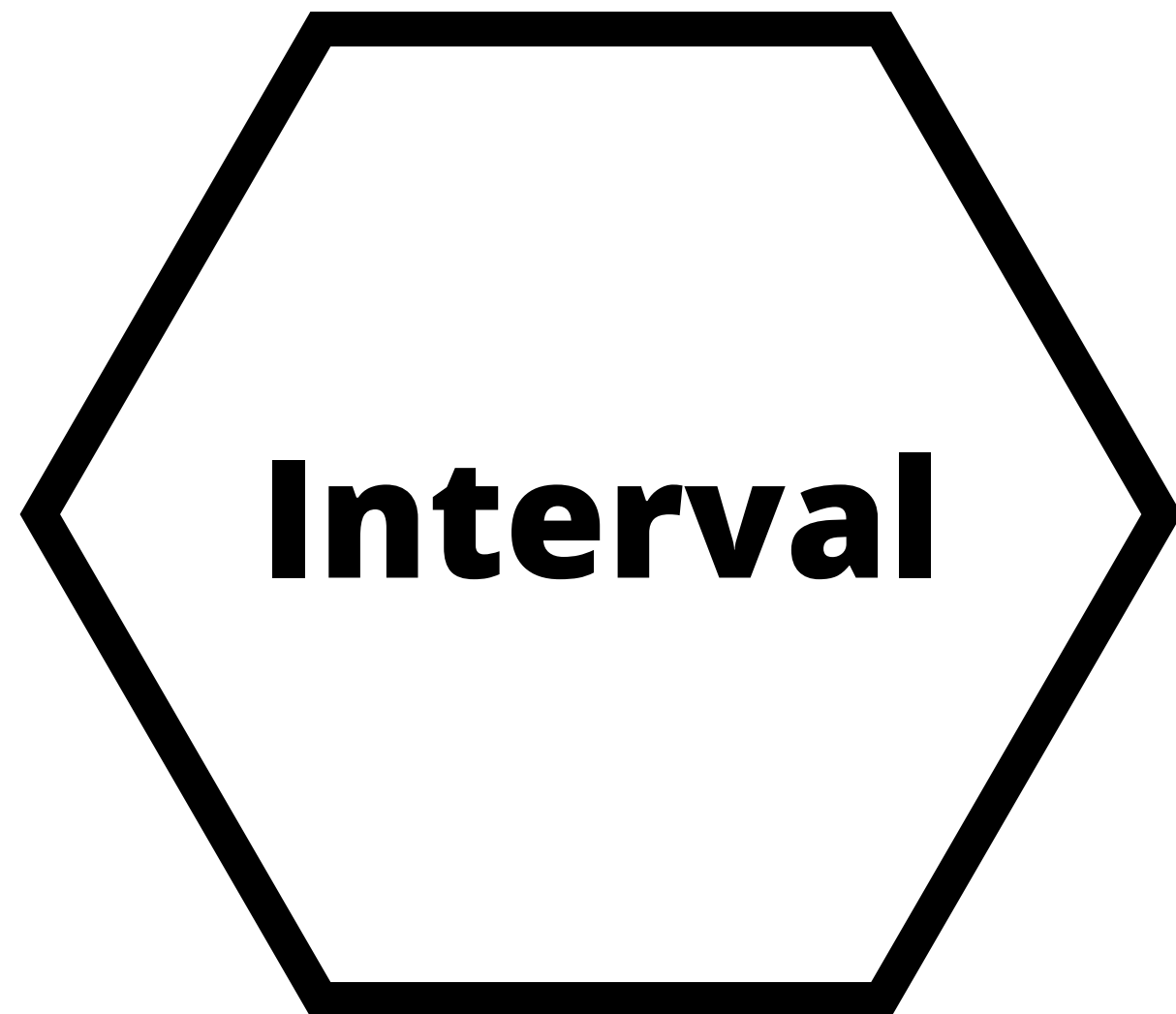
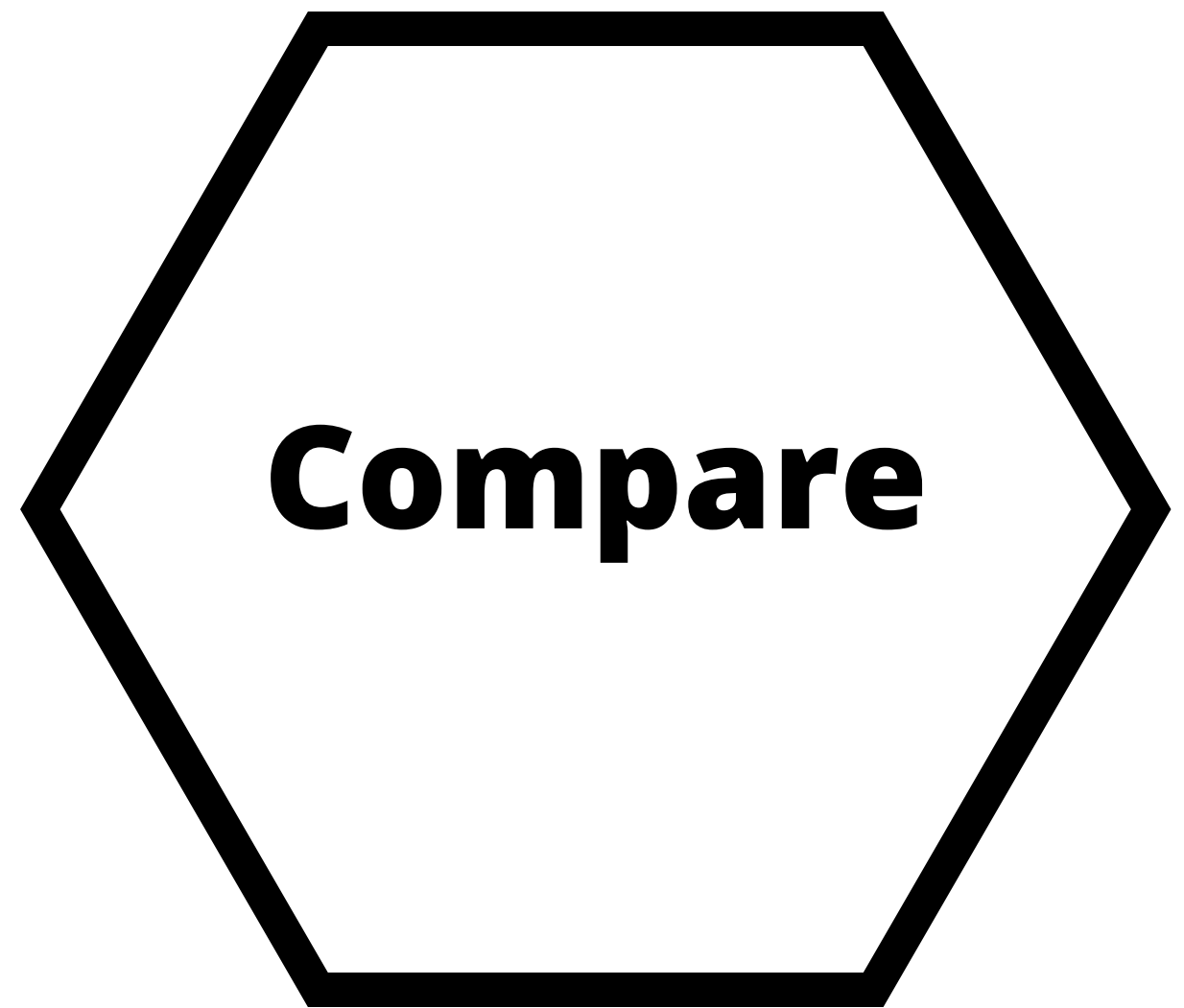
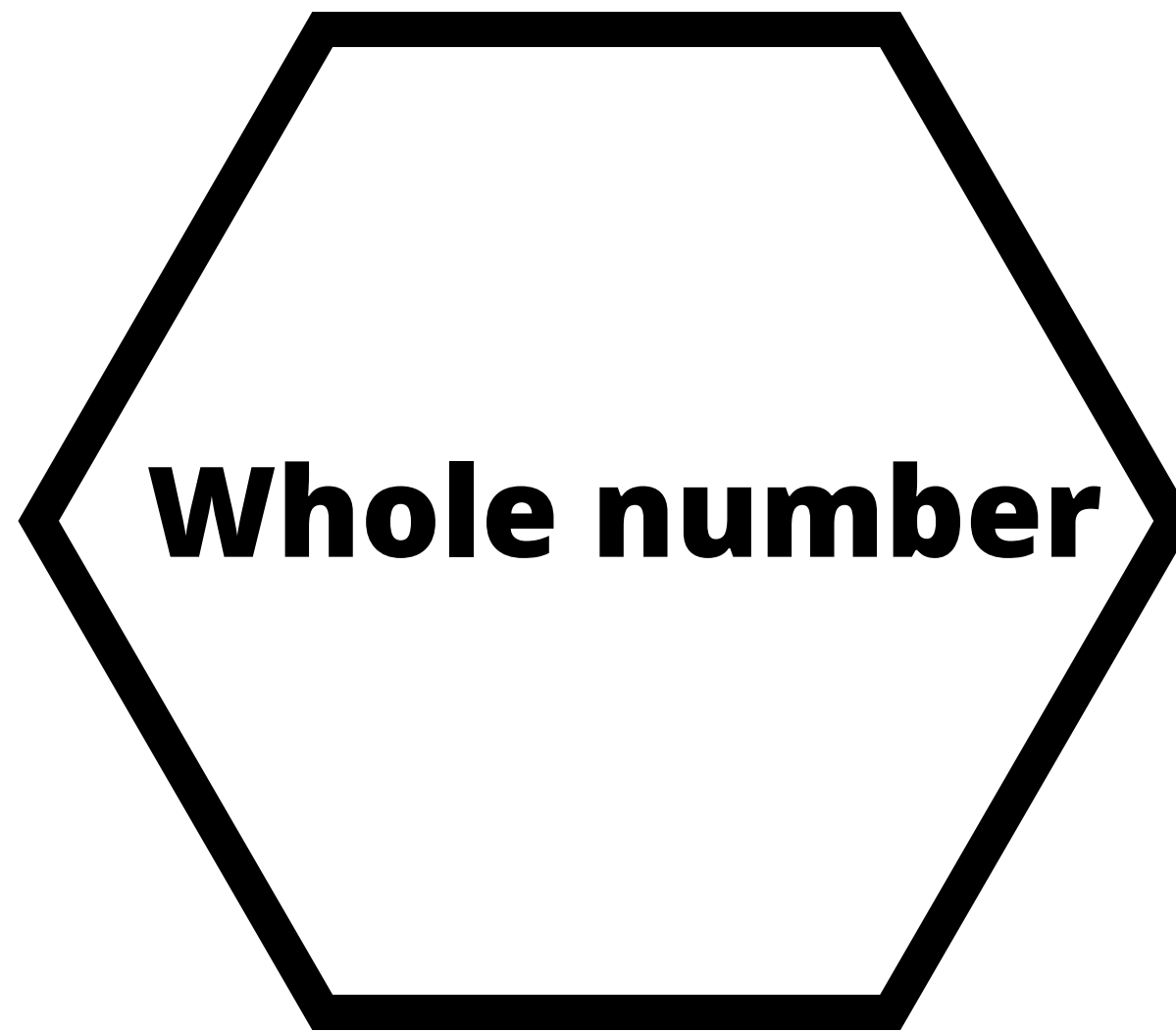
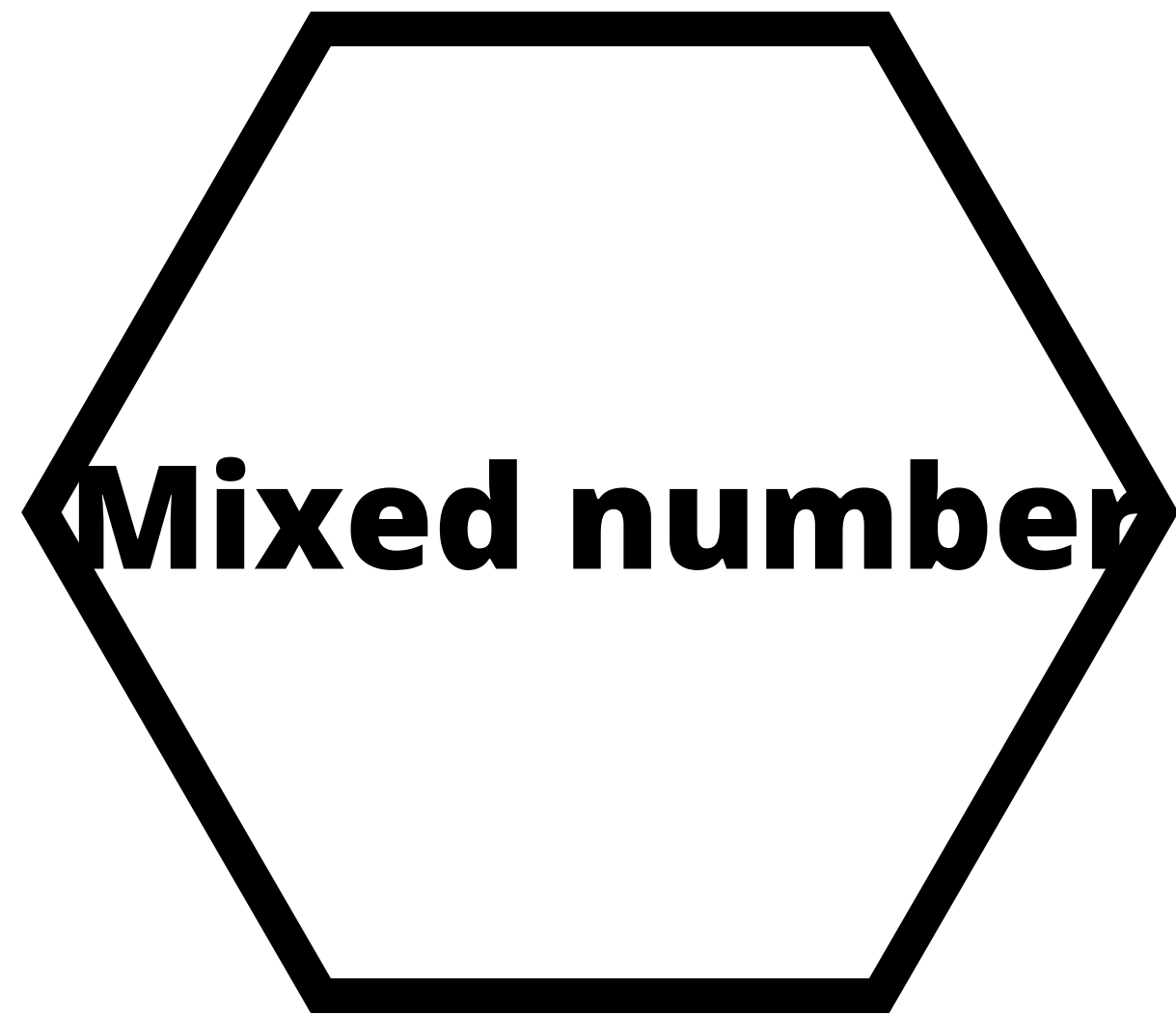
Division bar

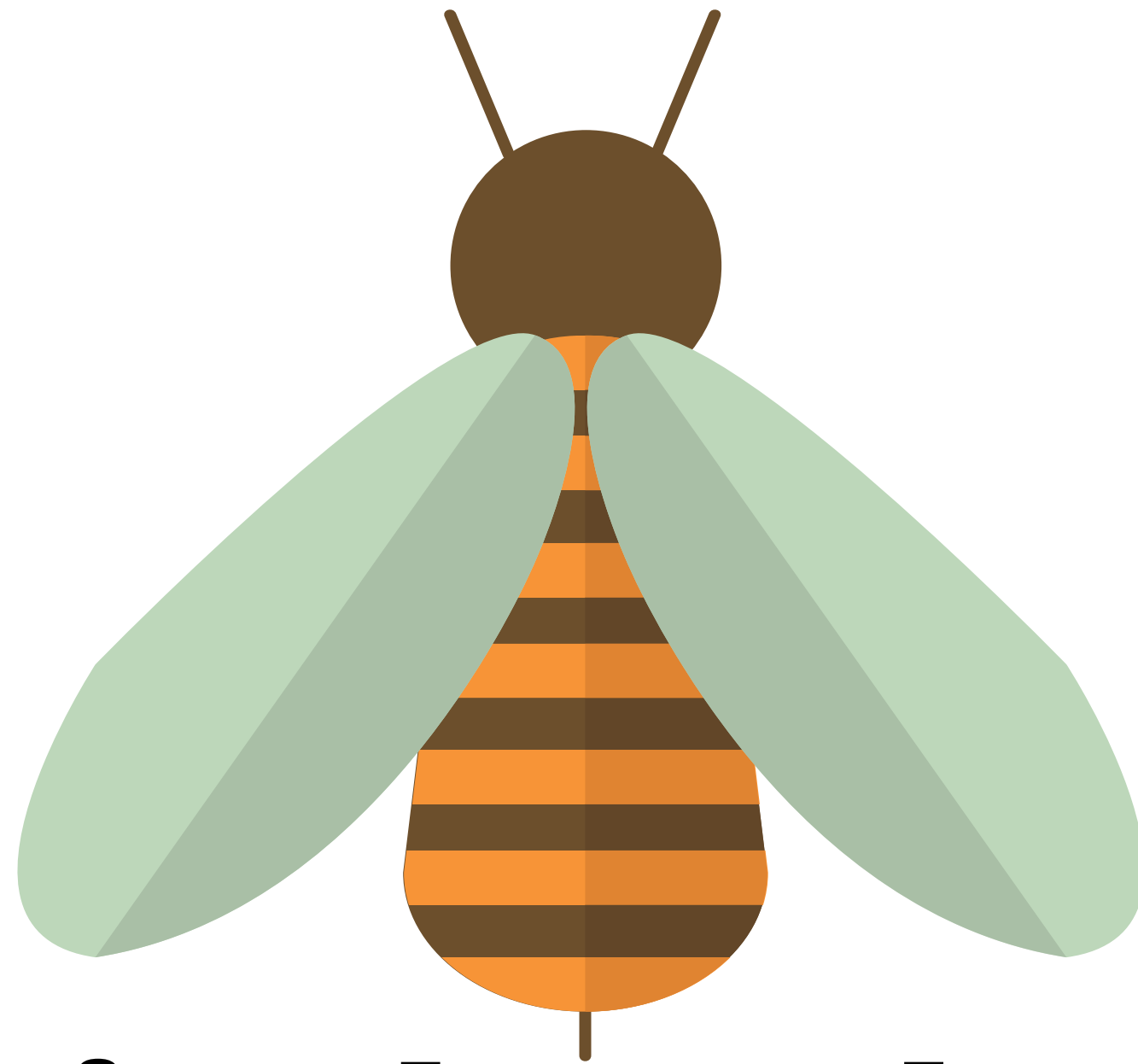
Numerator

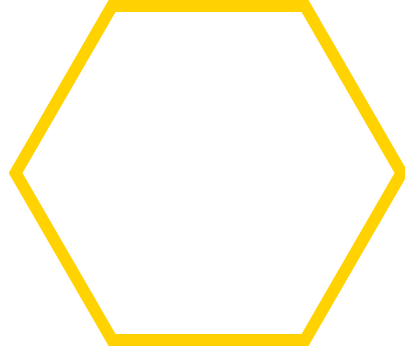
Denominator

Uni fraction

**Non-unit
fraction**

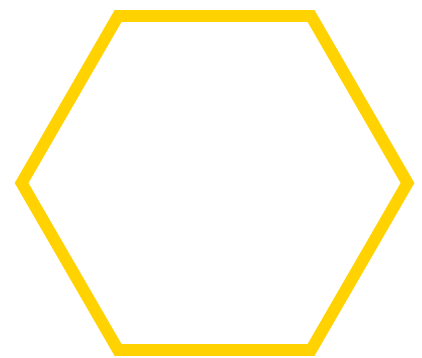




If the bee is the whole, then
 **is part of the whole.**

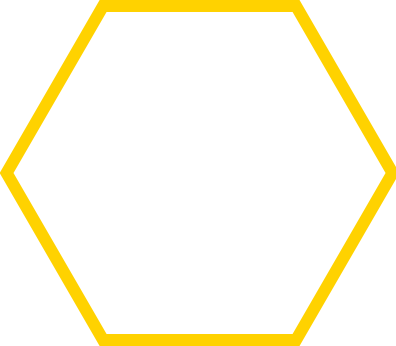


If the bus is the whole, then

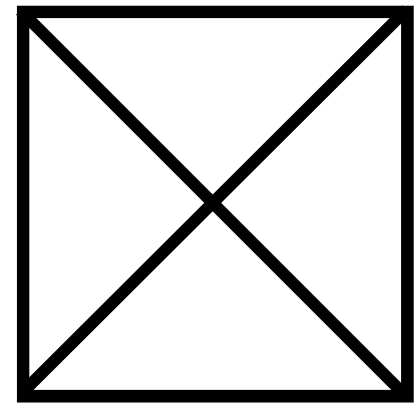
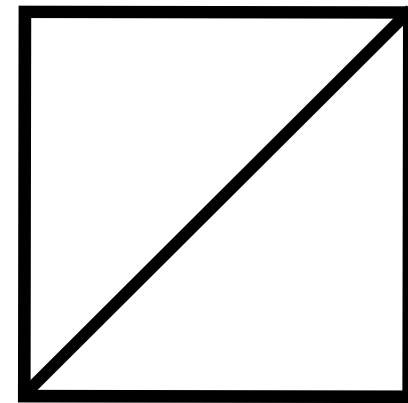
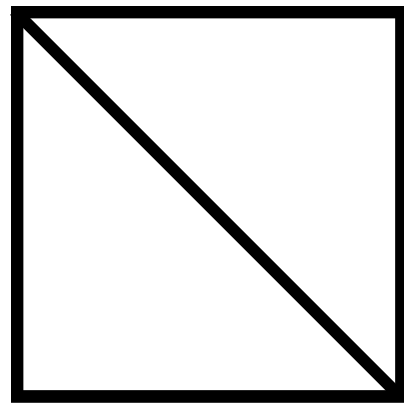
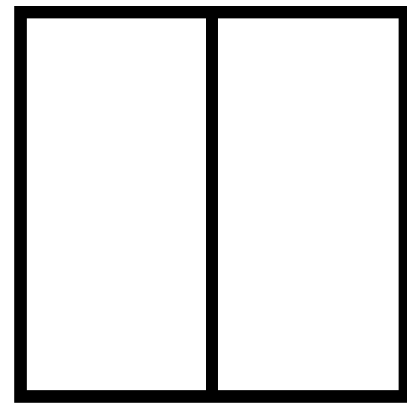
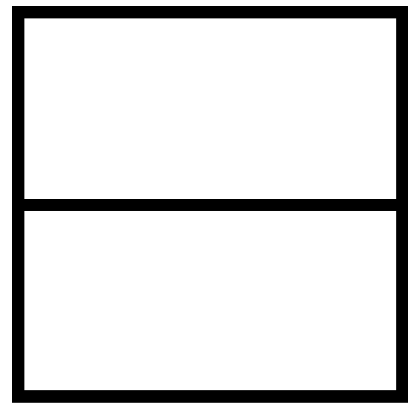
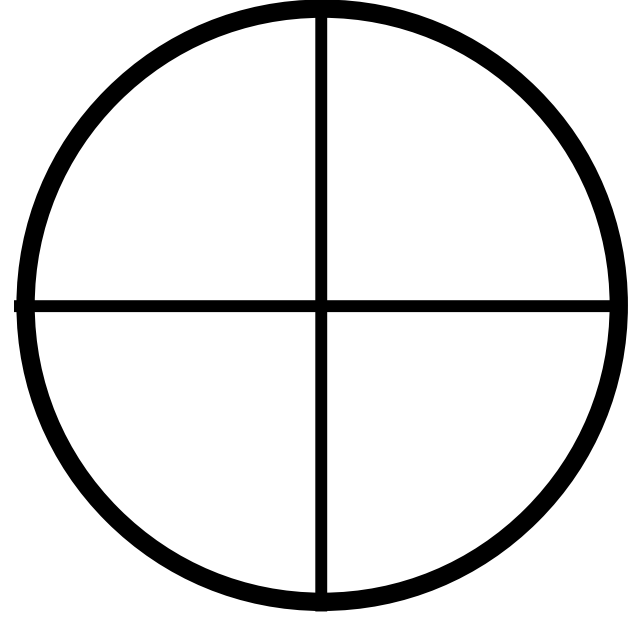
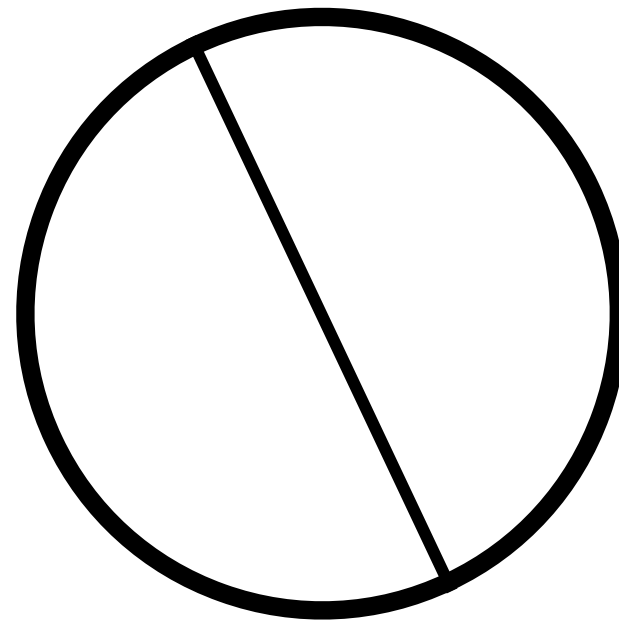
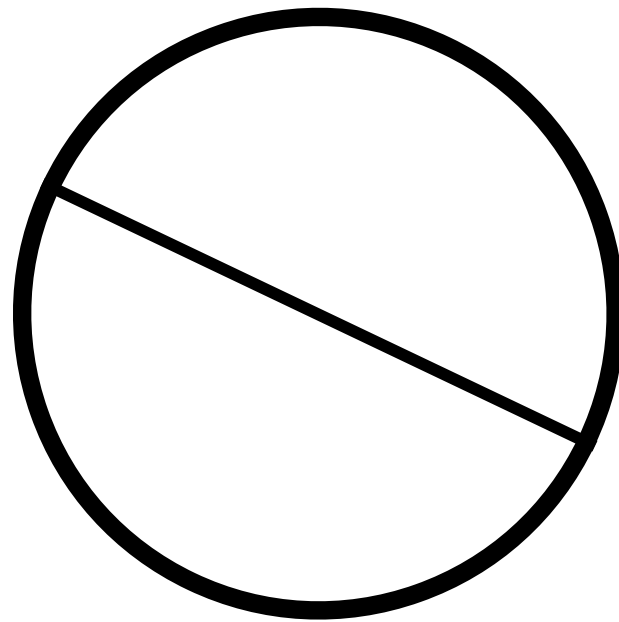
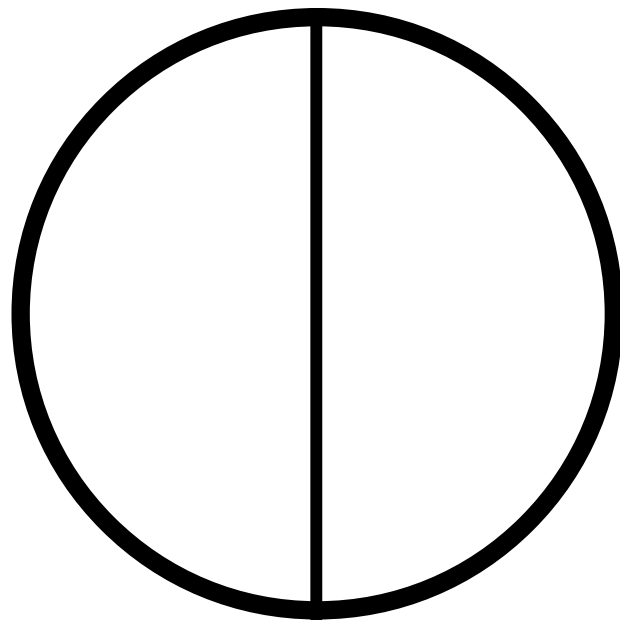
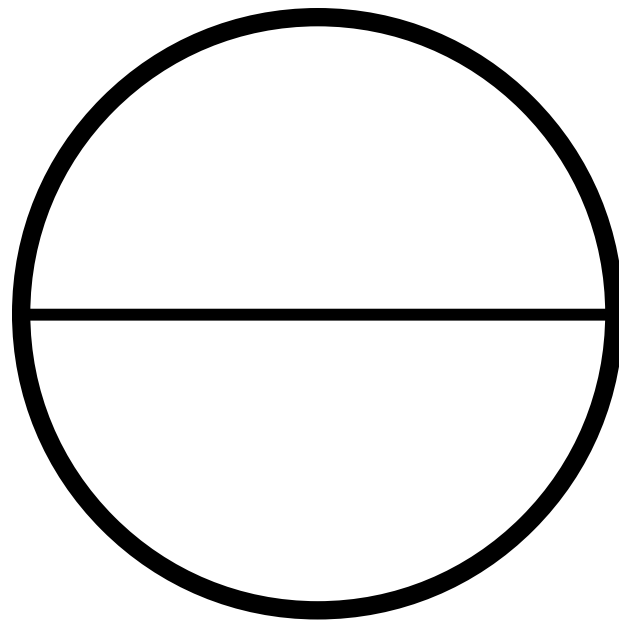


is part of the whole.

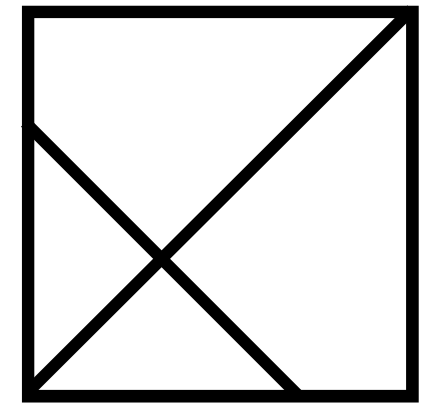
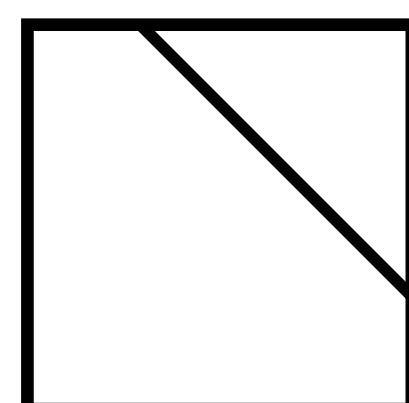
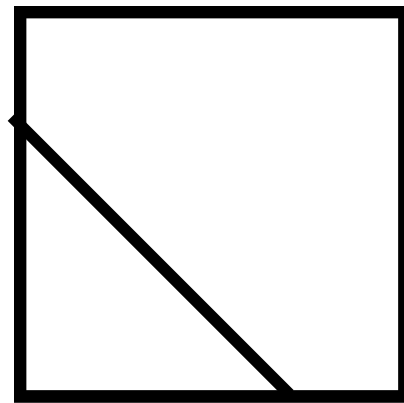
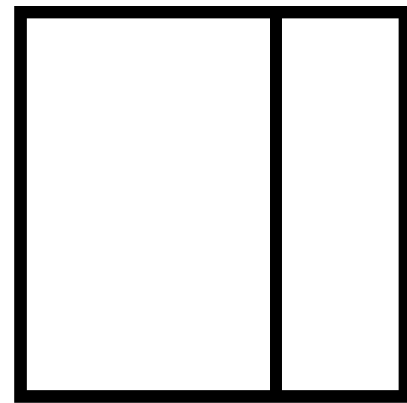
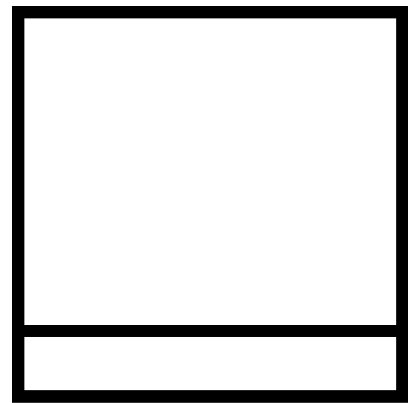
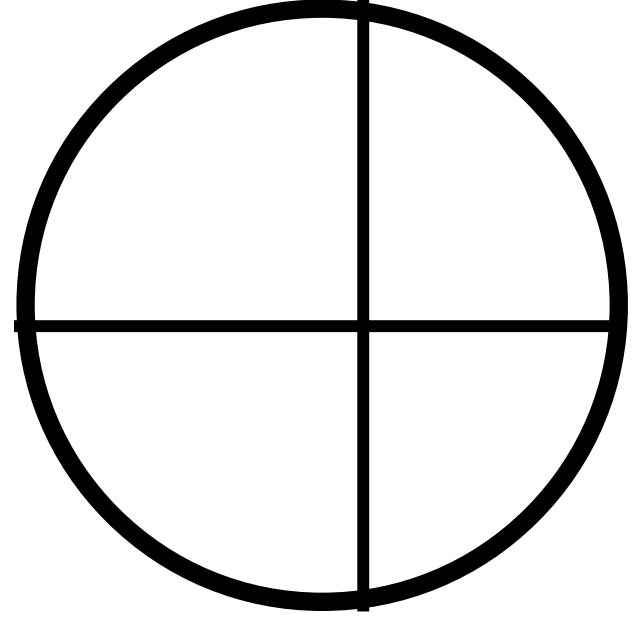
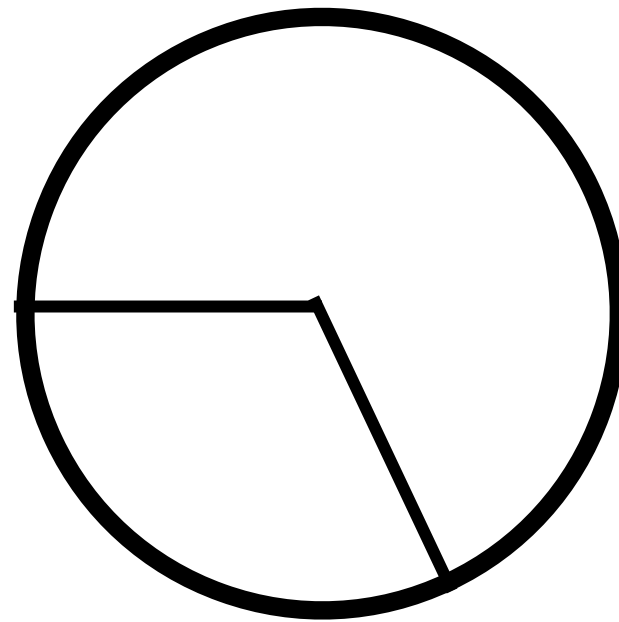
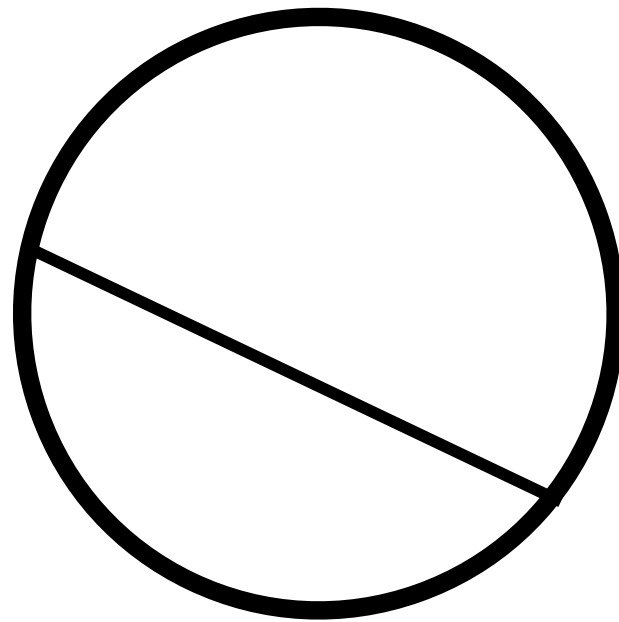
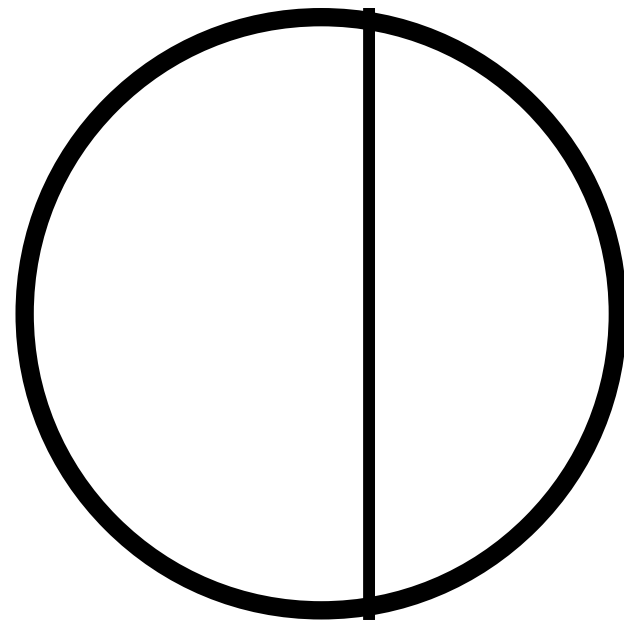
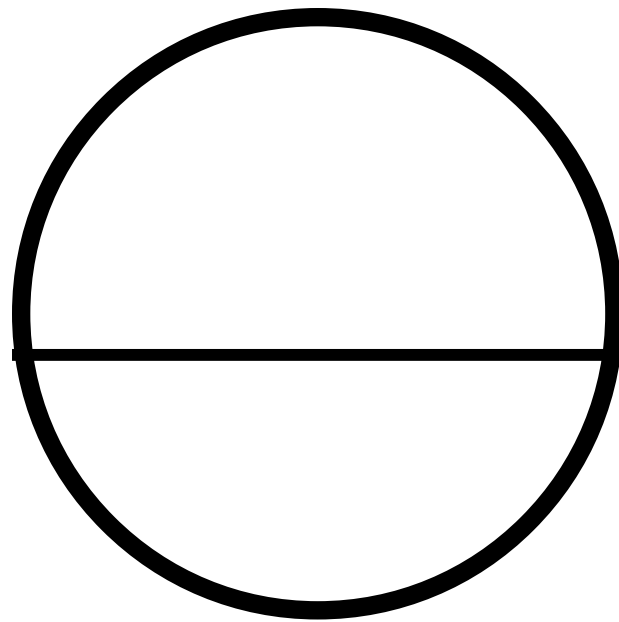


**If the house is the whole,
then  is part of the whole.**

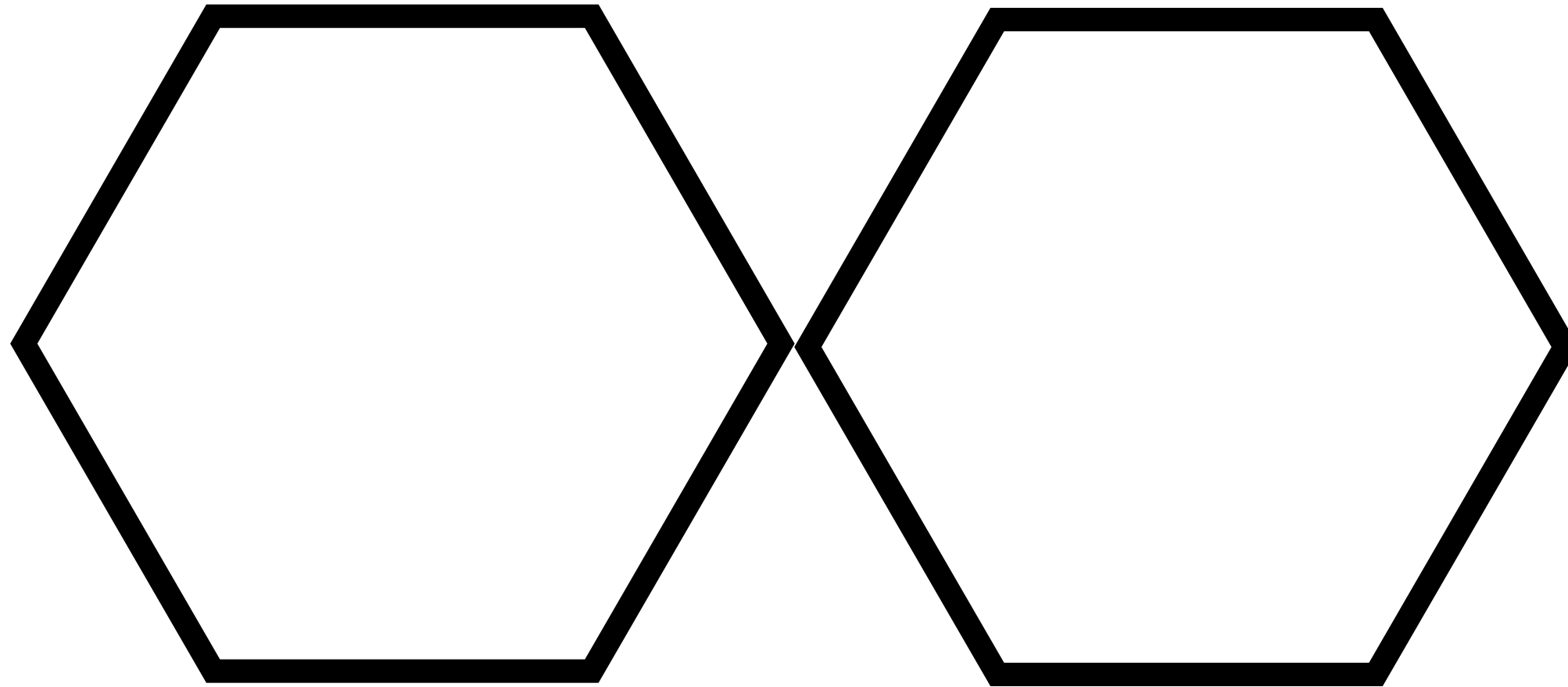
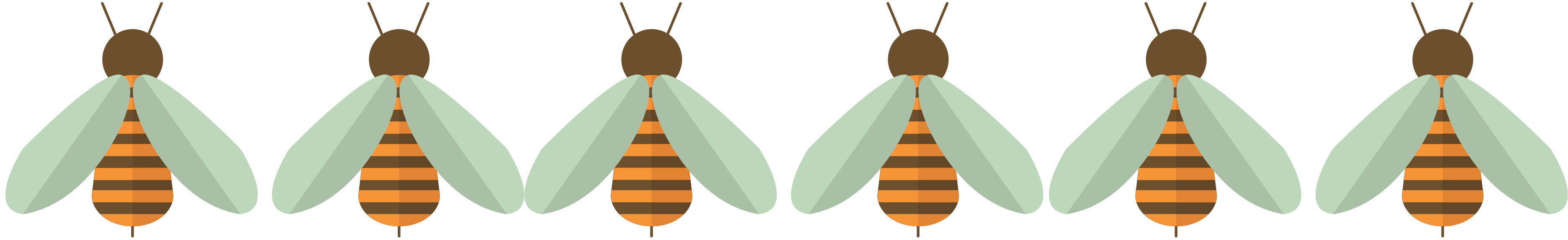
Equal parts



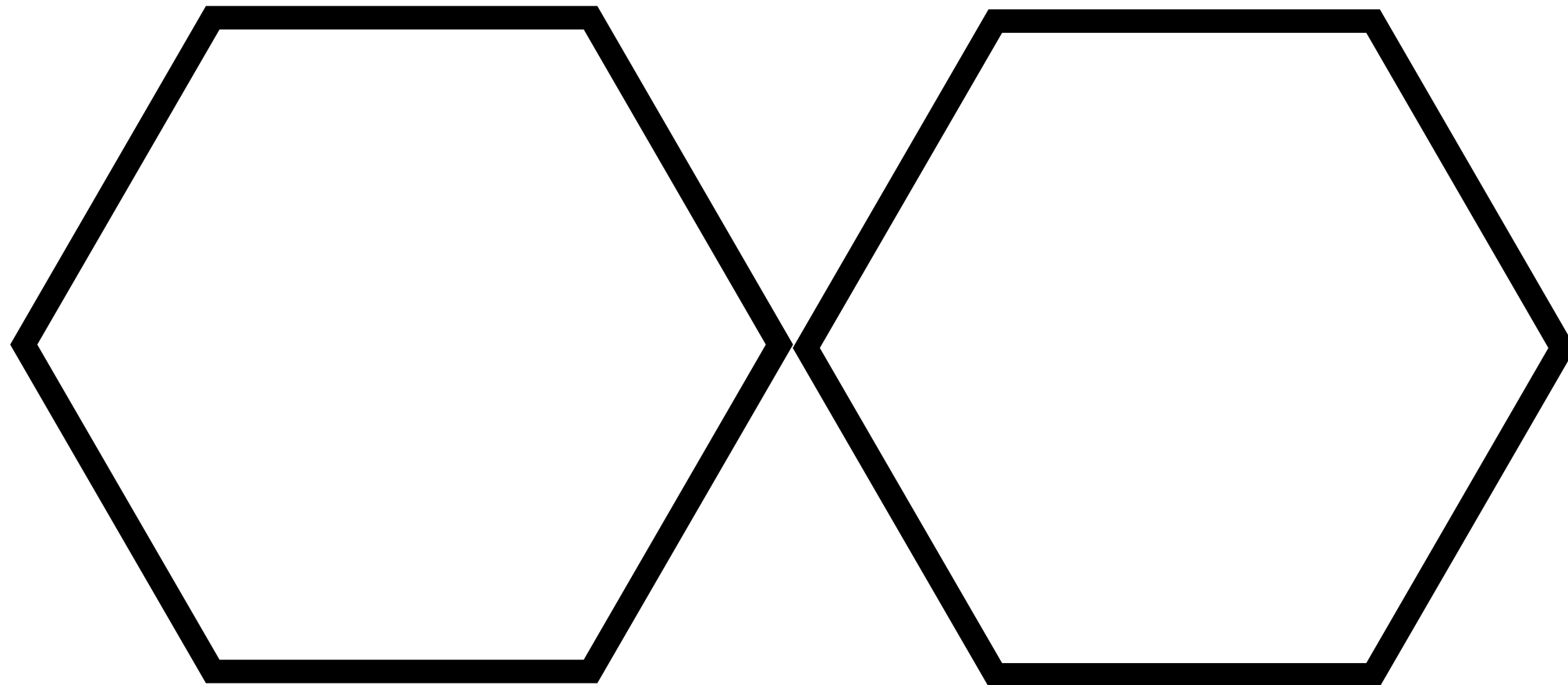
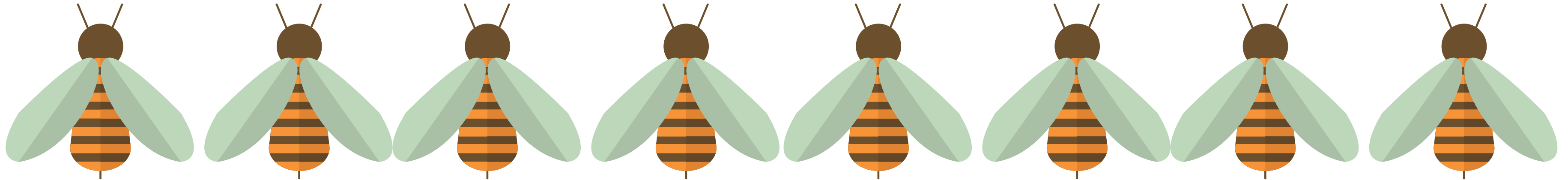
Unequal parts



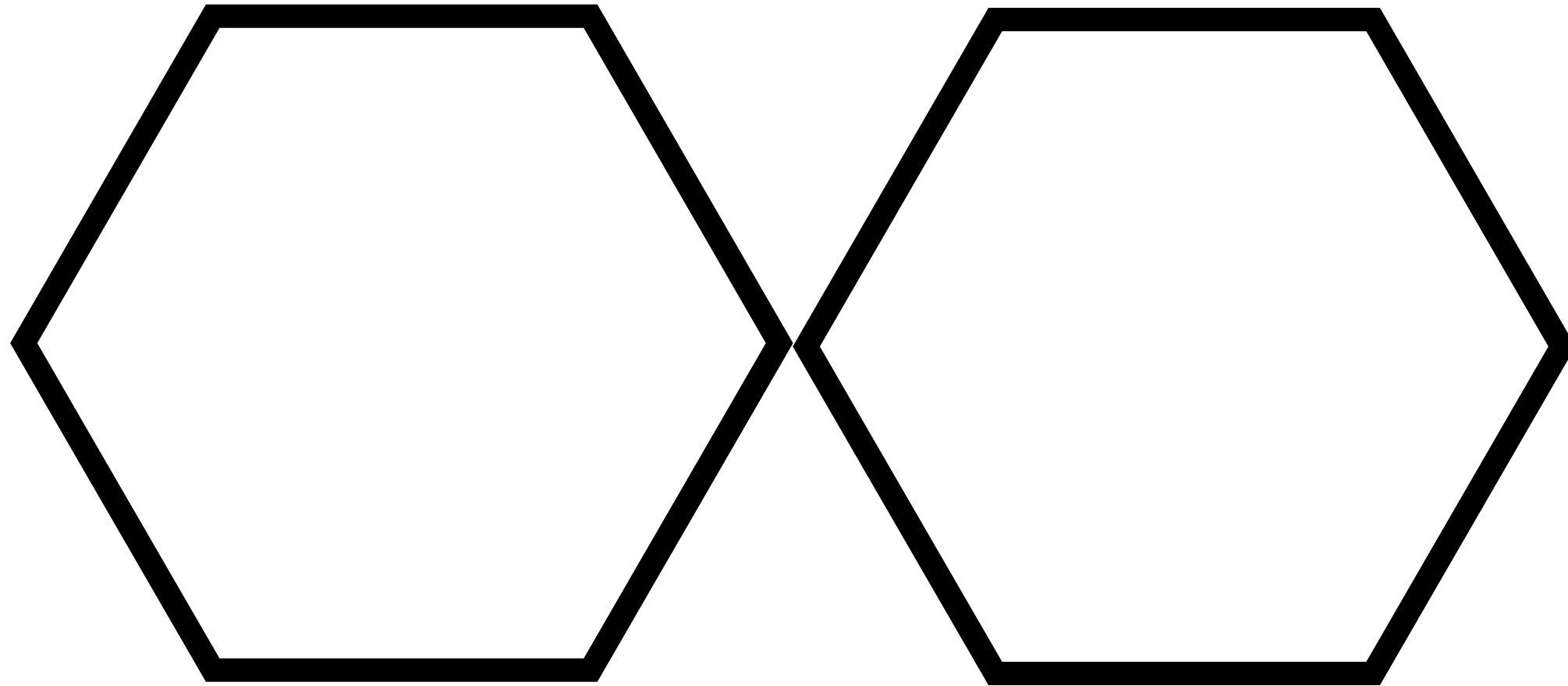
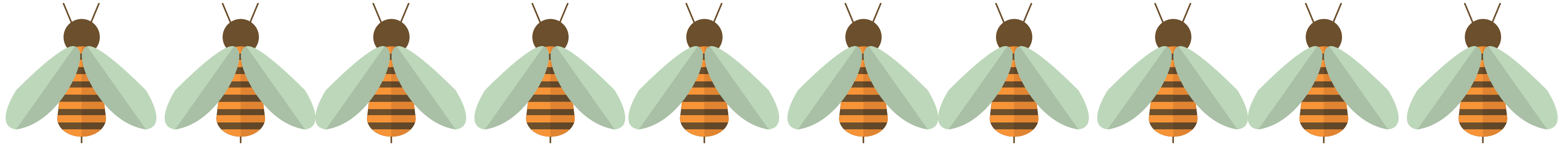
Half (Sort)



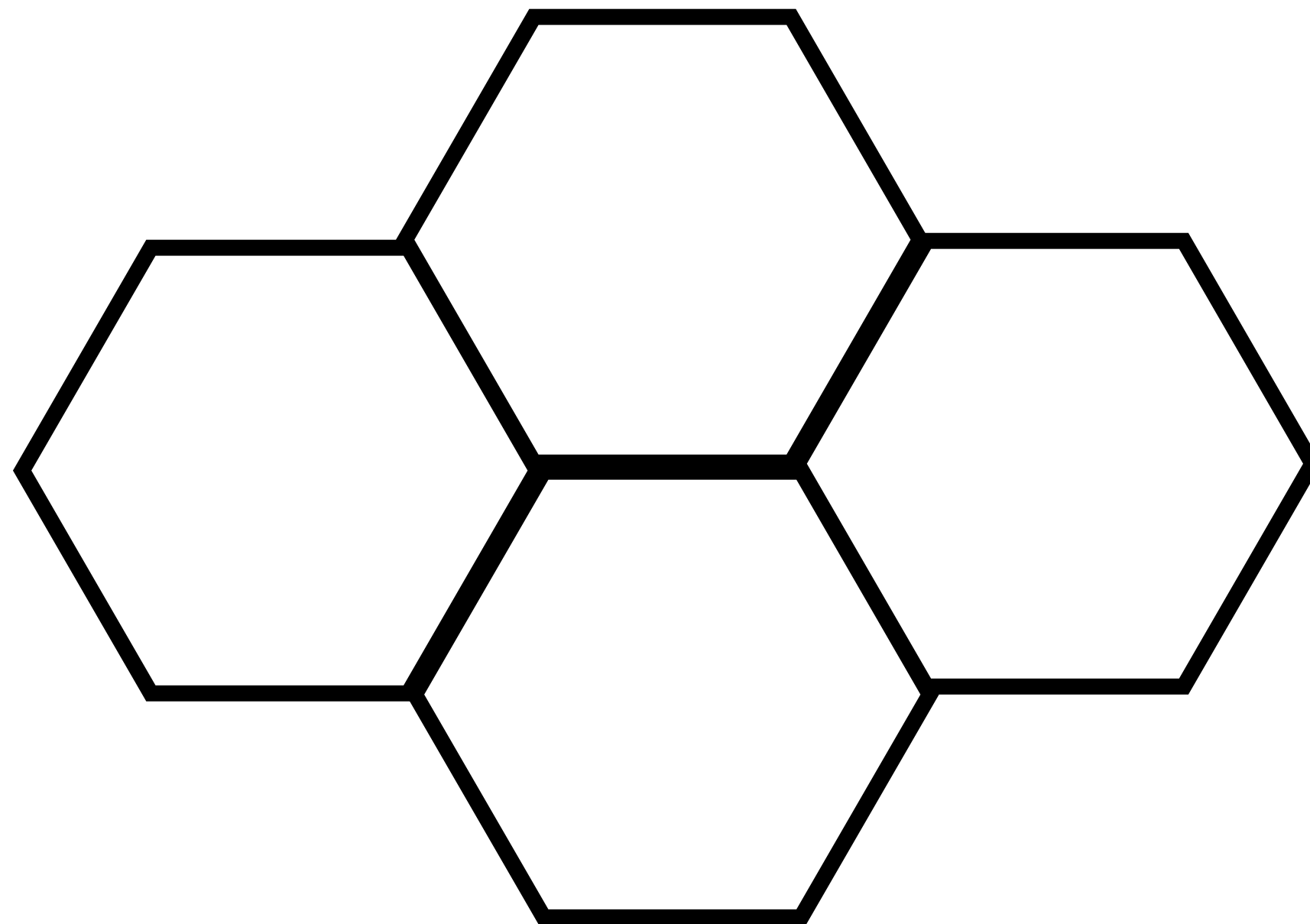
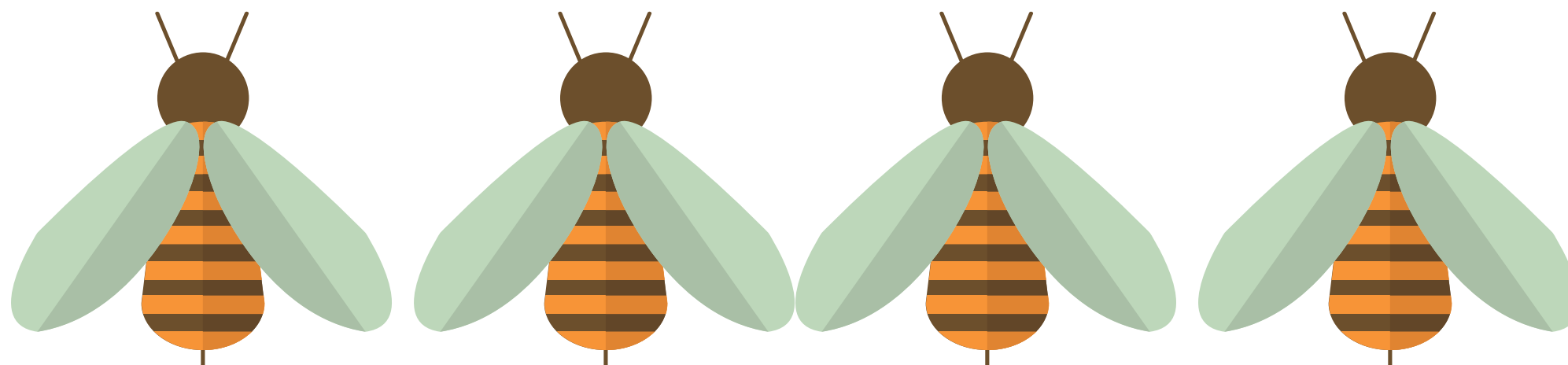
Half



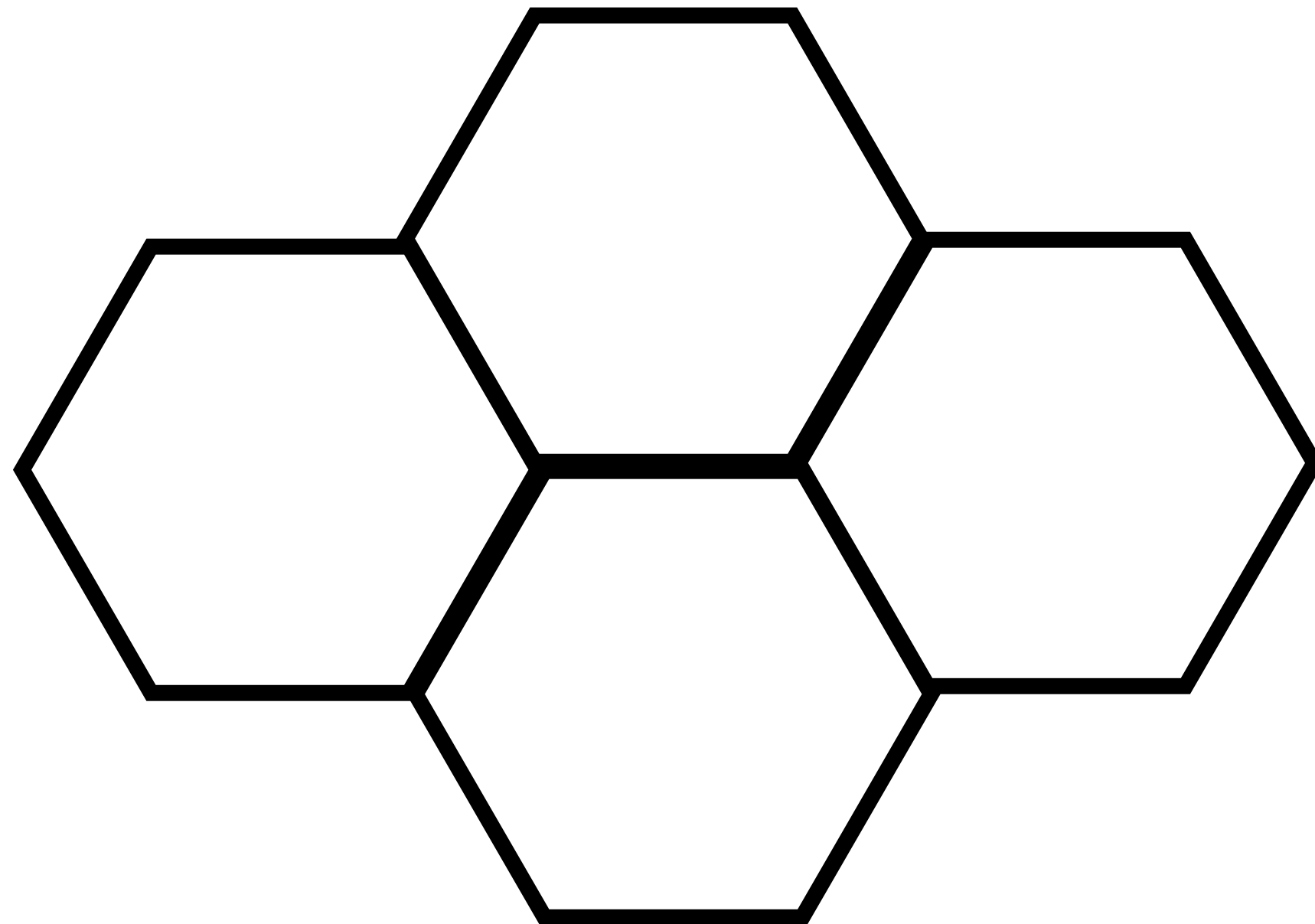
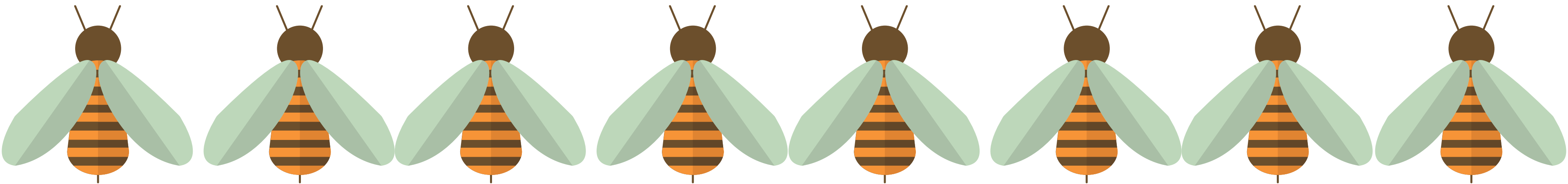
Half



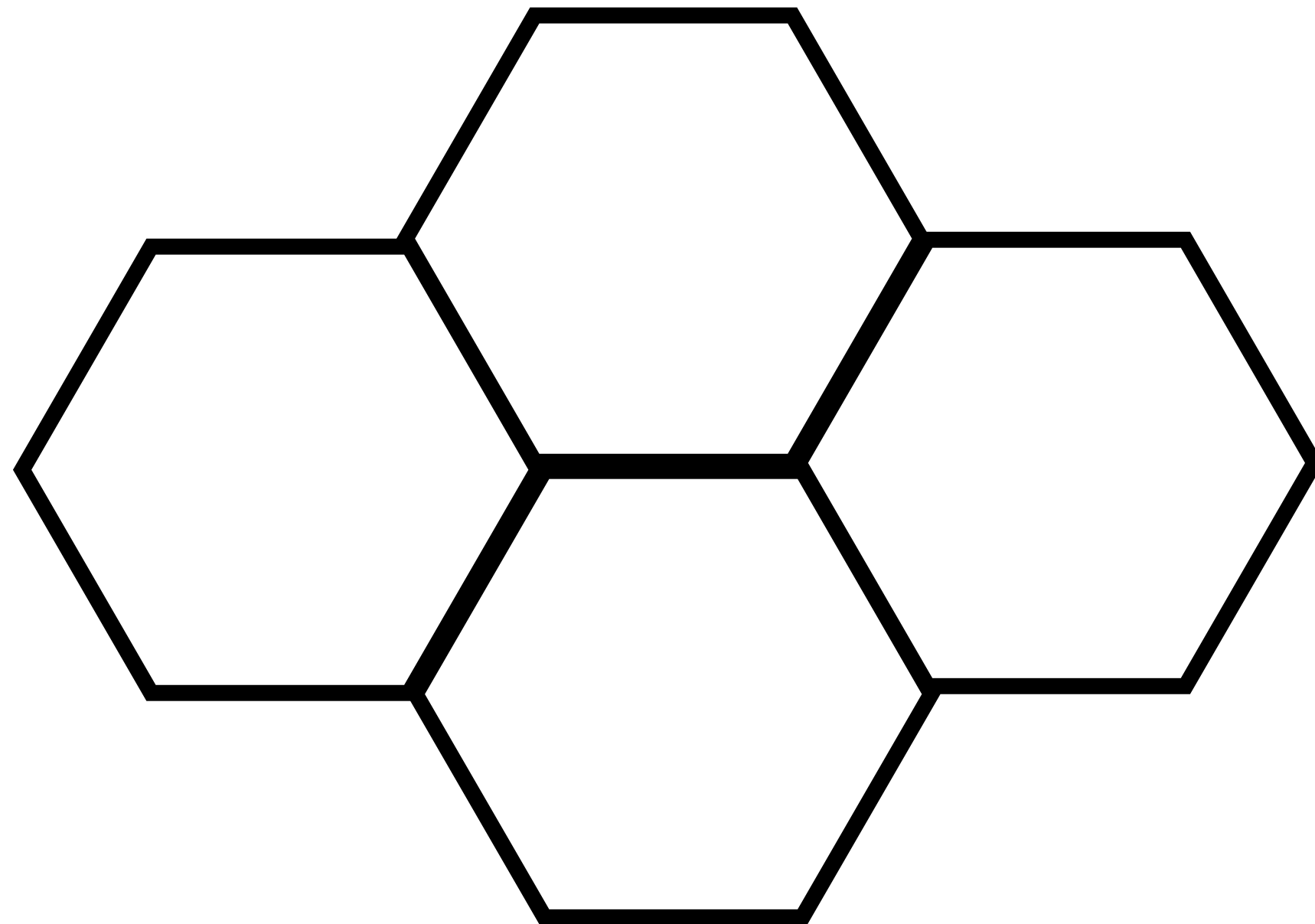
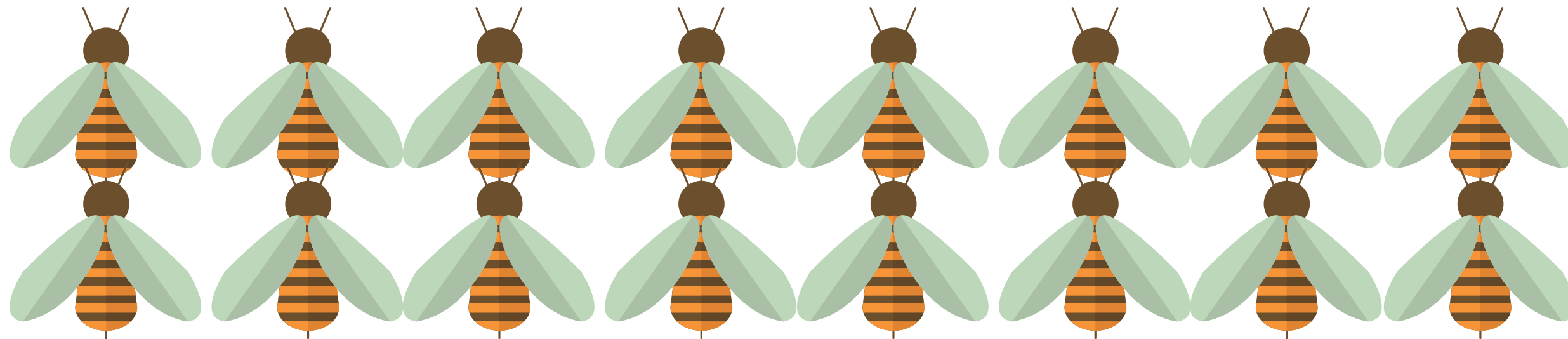
Quarter



Quarter



Quarter



Counting fractions

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

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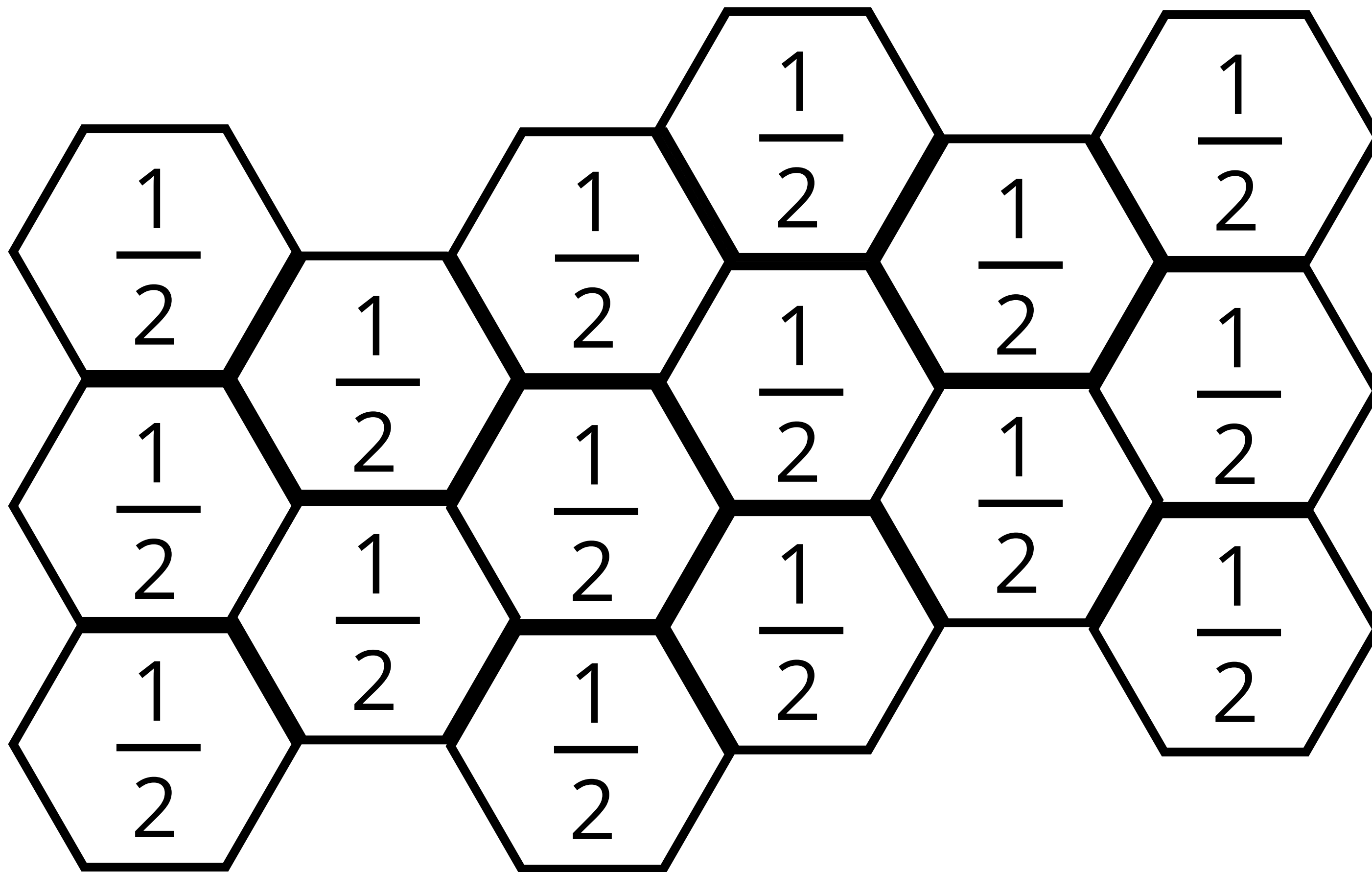
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$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$



$$\frac{1}{3}$$

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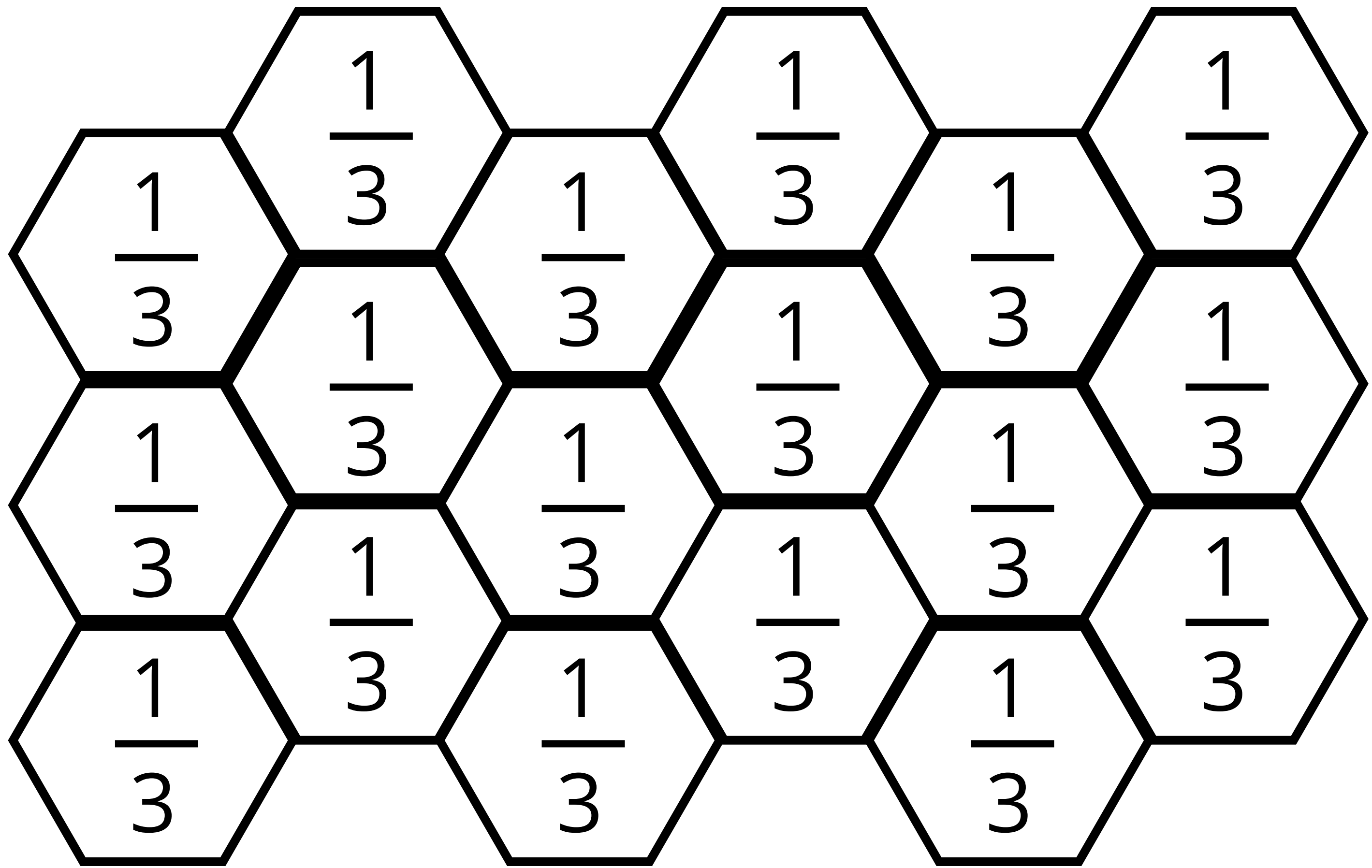
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$$\frac{1}{3}$$



$$\frac{1}{4}$$

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