

Purposeful Design

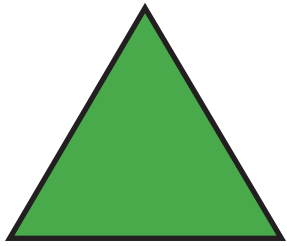
# MATHEMATICS

Grade 1

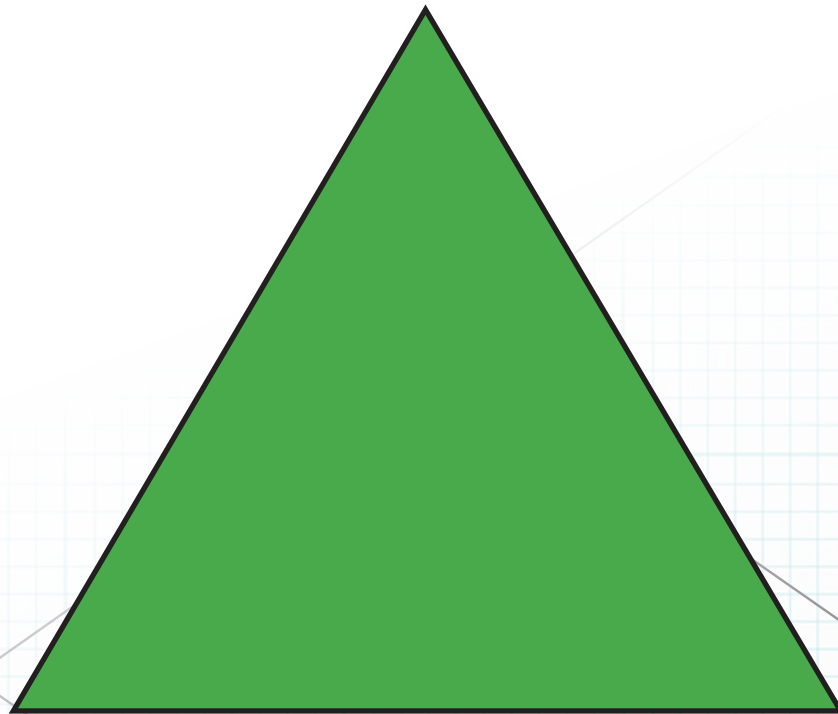
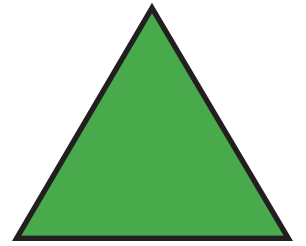
Second Edition

***Shapes and Numbers***

# Part 1: Shapes

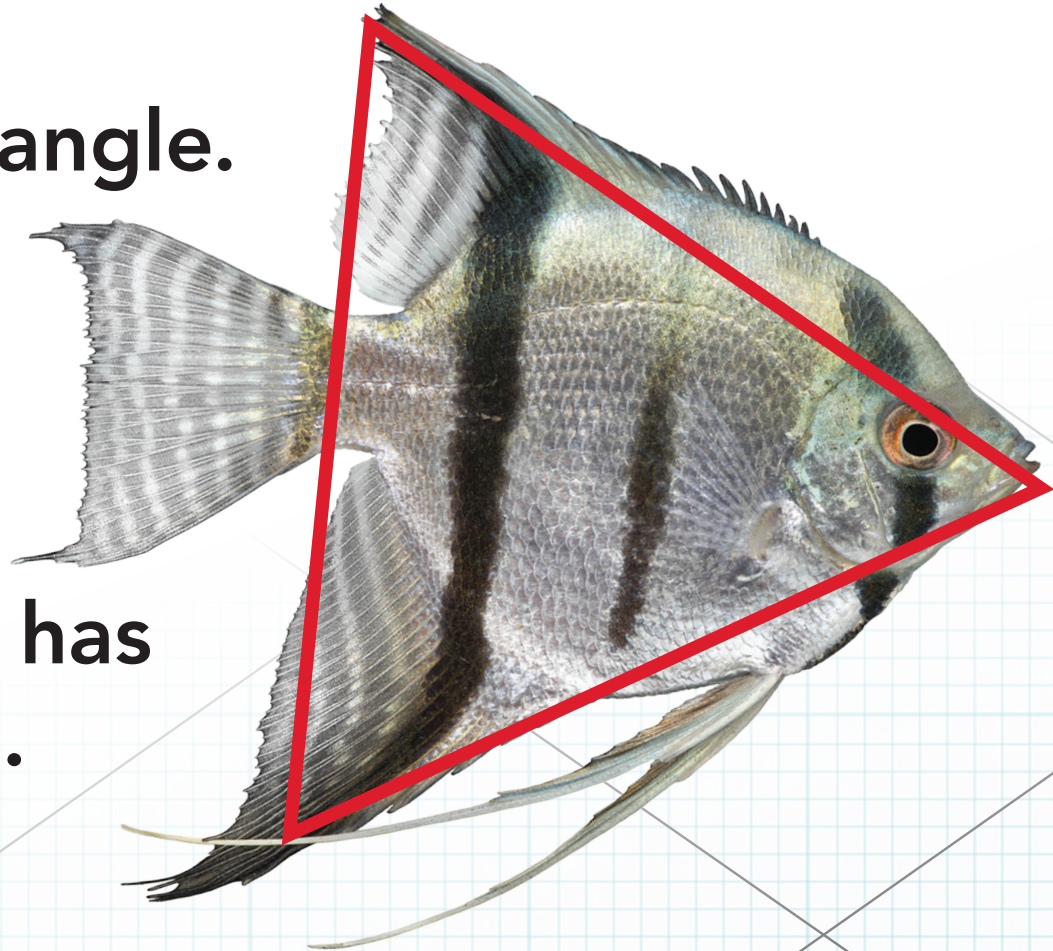


**These are triangles.  
A triangle has 3 sides.**



**This is a triangle.**

**A triangle has  
3 sides.**





# Can you find the triangles?





**These are rectangles.  
A rectangle has 4 sides.**



**This is a rectangle.**  
**A rectangle has 4 sides.**

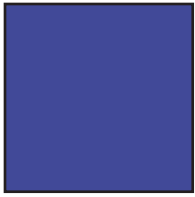




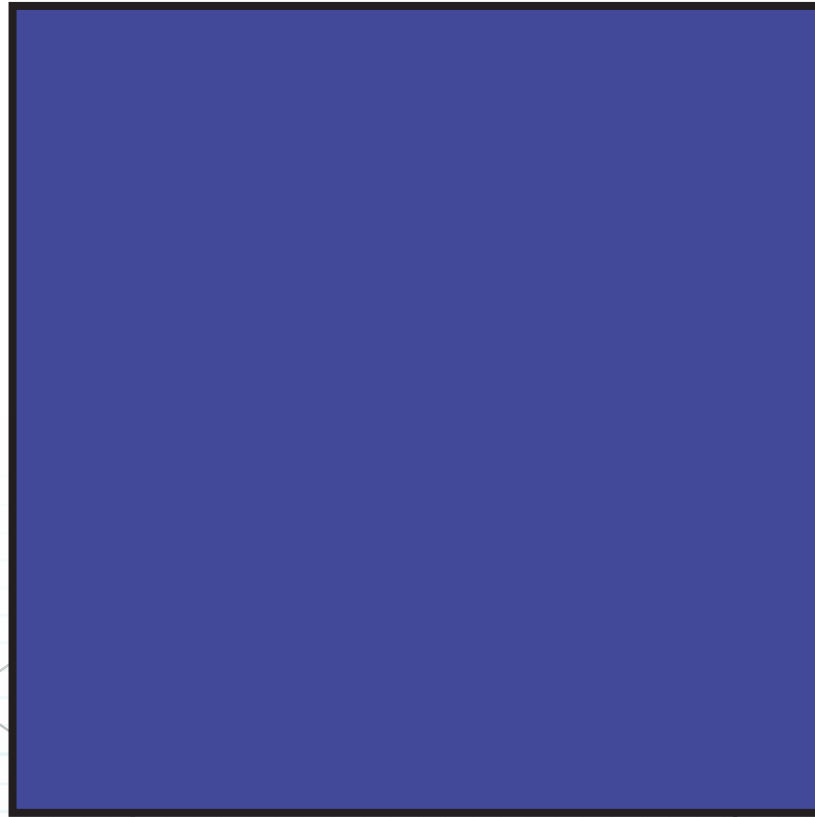
# Can you find the rectangle?



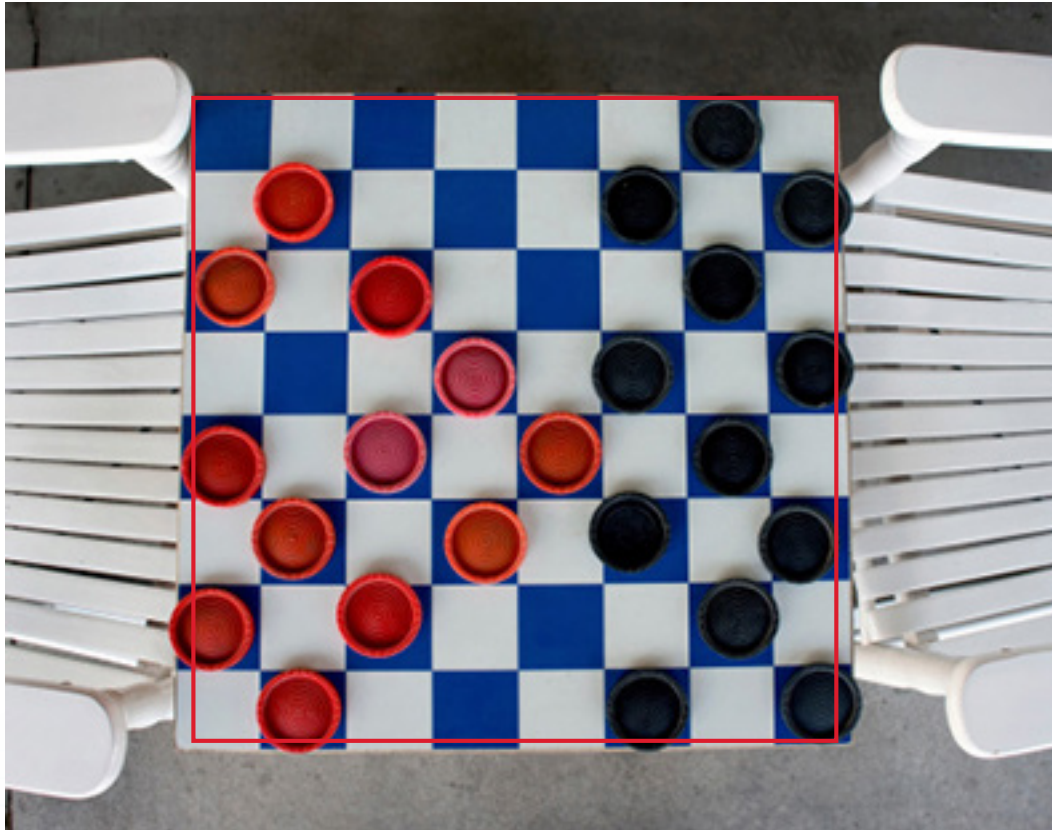




**These are squares.  
A square has 4 equal sides.**



**These are squares.**

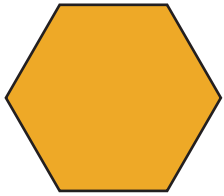


**A square has  
4  
equal sides.**

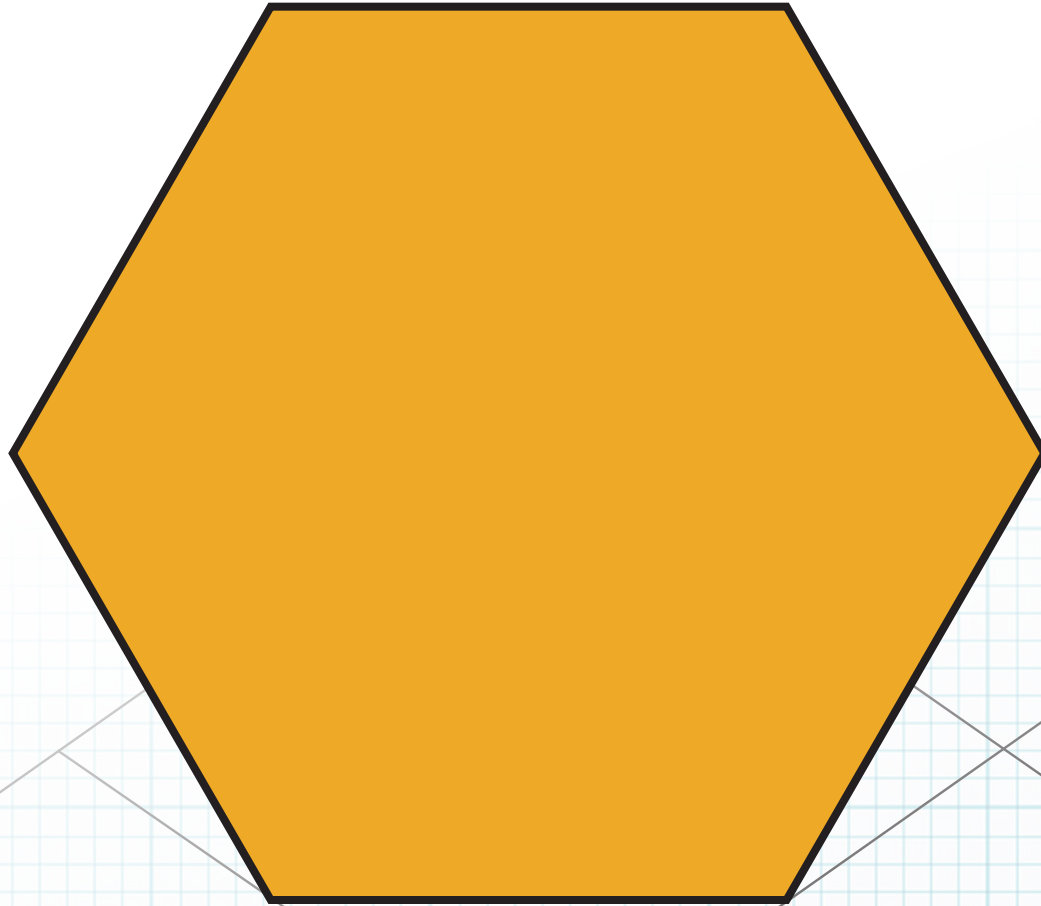
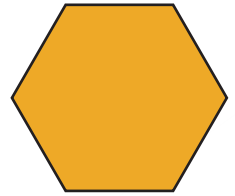
# Can you find the squares?



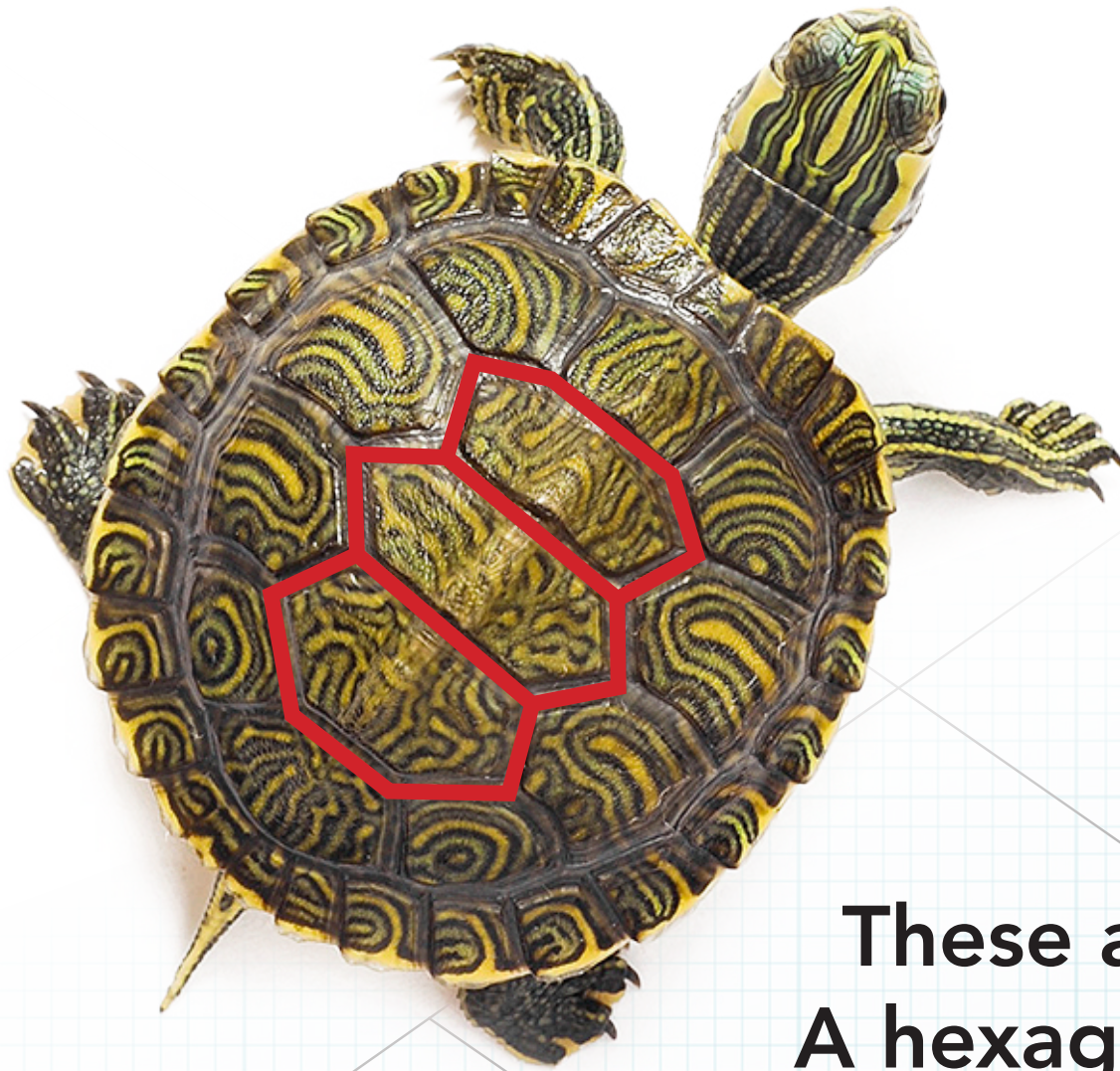




**These are hexagons.  
A hexagon has 6 sides.**





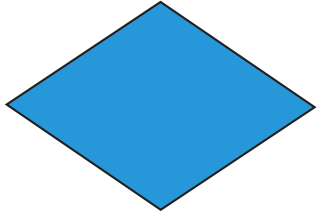


**These are hexagons.  
A hexagon has 6 sides.**

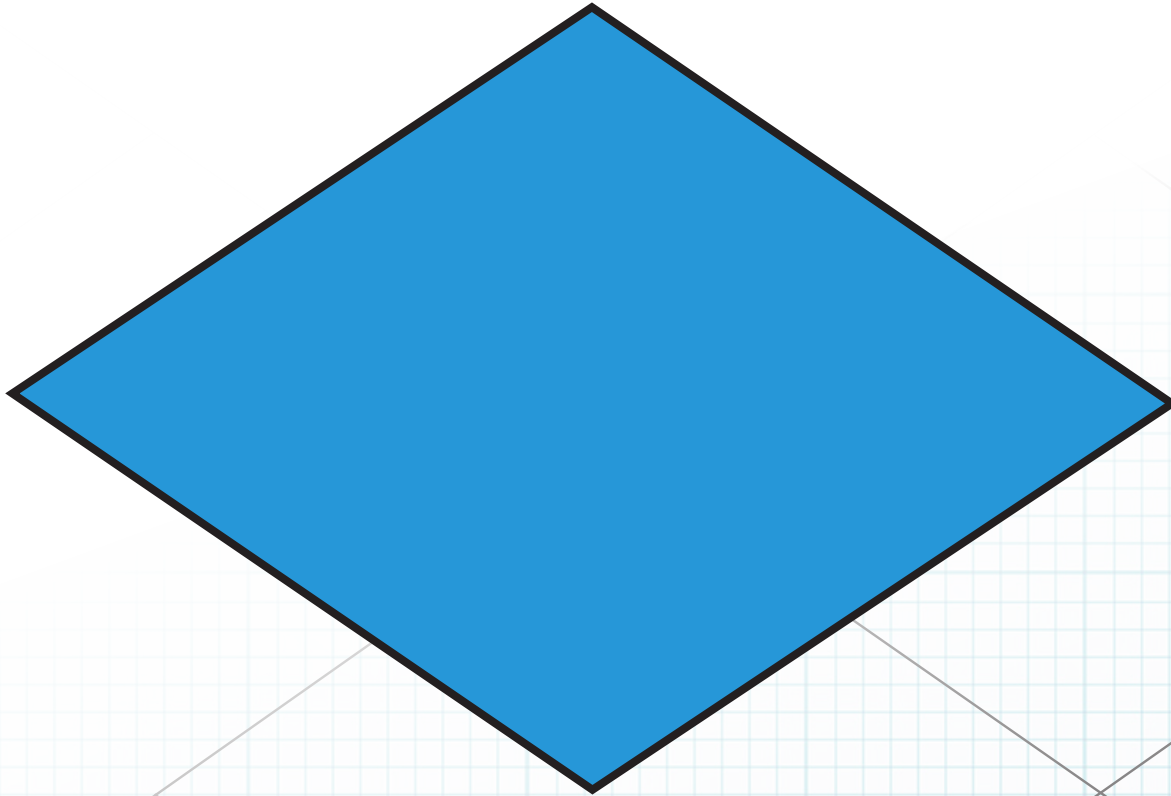
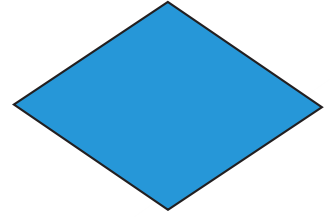
# Can you find the hexagons?







**These are rhombuses.  
A rhombus has 4 equal sides**



**and 4 corners that are not  
always square corners.**

**This is a rhombus.**





Can you  
find the  
rhombus?





These are trapezoids.  
A trapezoid has 4 sides.  
There can be no more  
than 2 slanted sides.





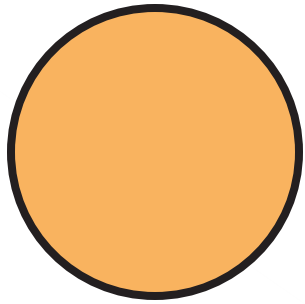
**This is a trapezoid.**



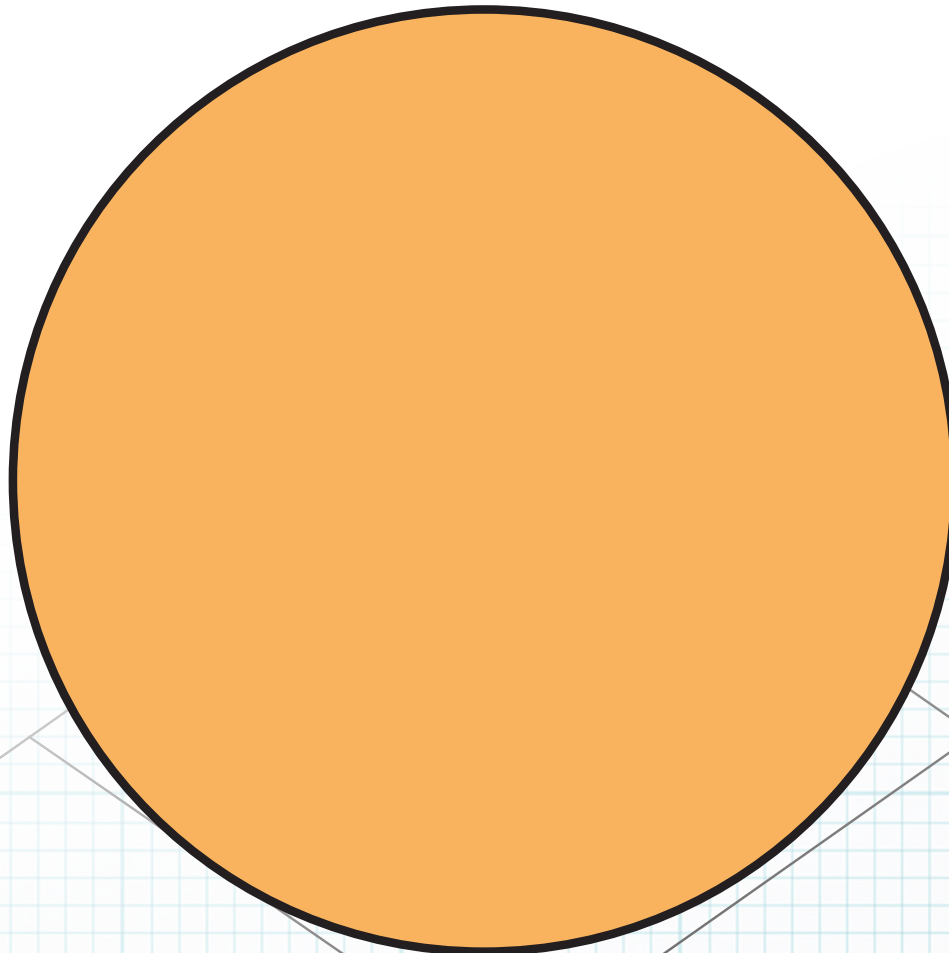
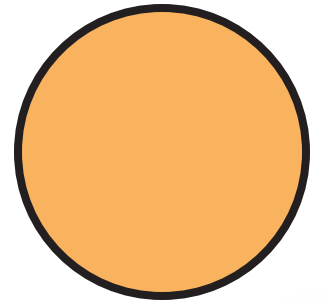
# Can you find the trapezoid?







**These are circles.  
A circle perfectly  
round shape.**



**These are circles.**

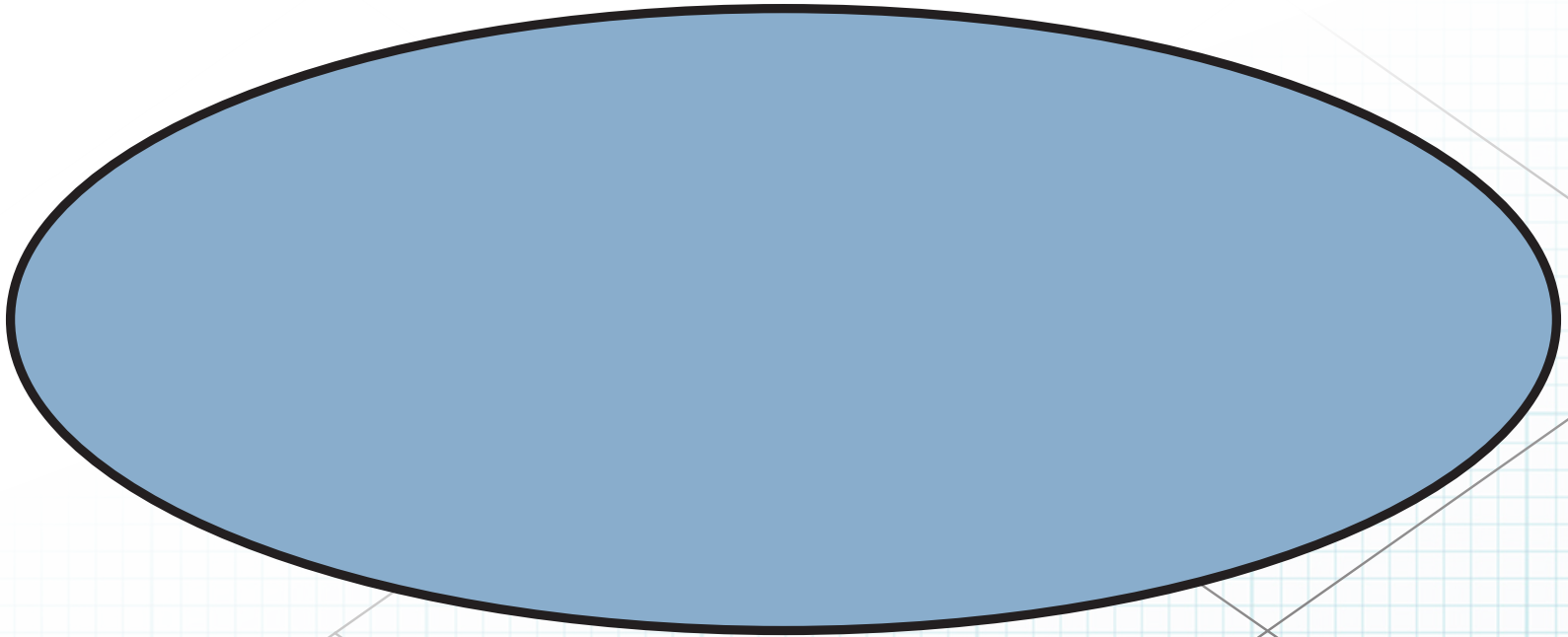
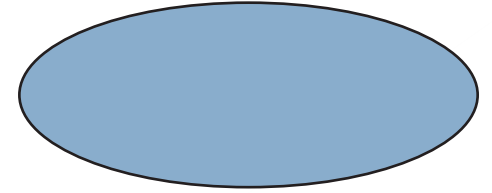
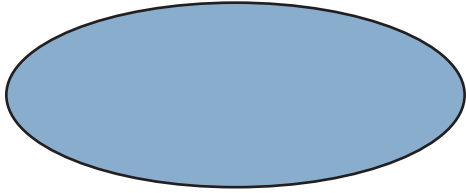


# Can you find the circles?

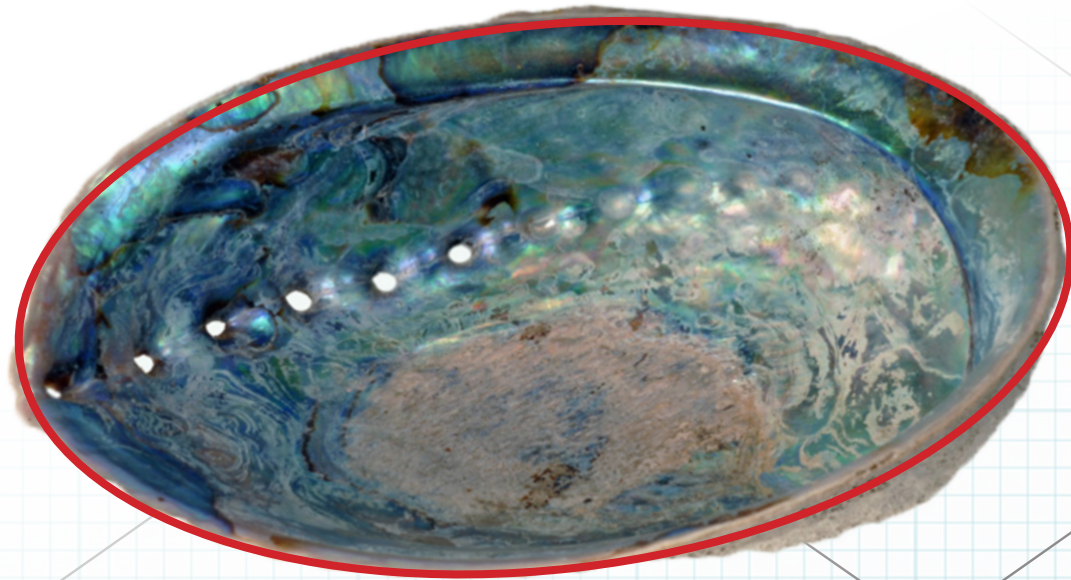




**These are ovals.**  
**A oval is longer one**  
**way than the other.**



**This is an oval.**



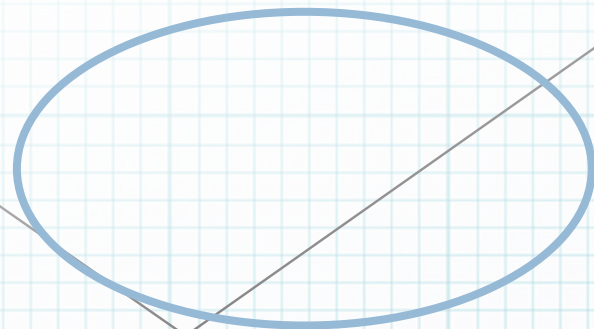
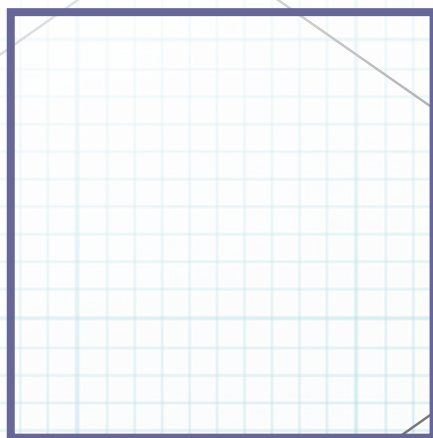
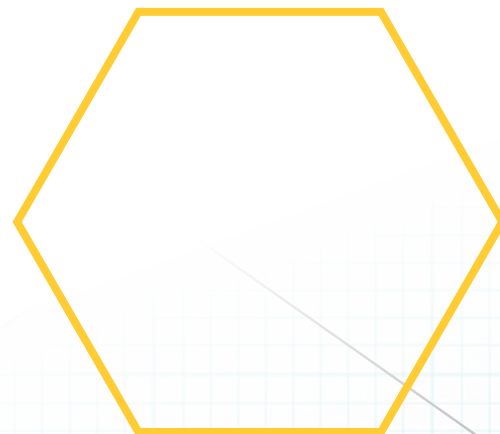
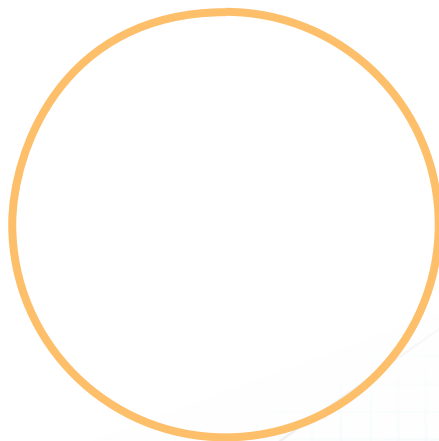
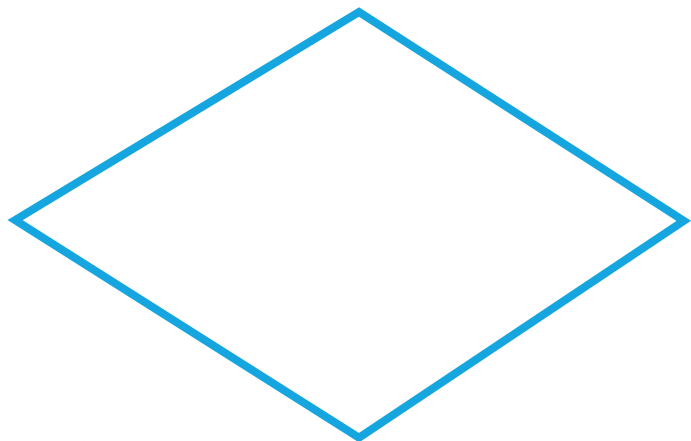


# Can you find ovals?

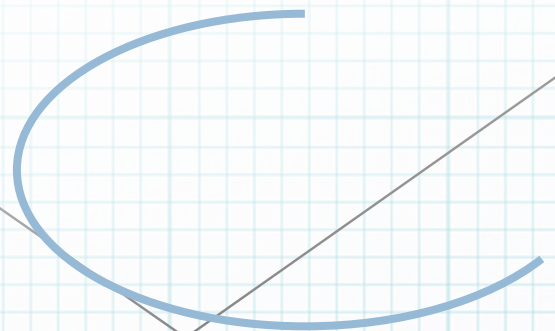
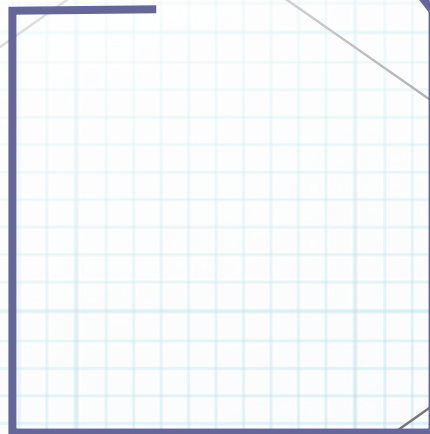
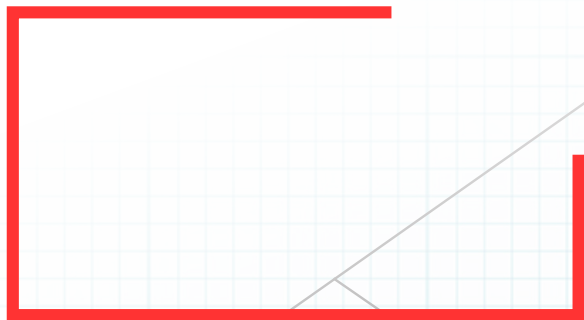
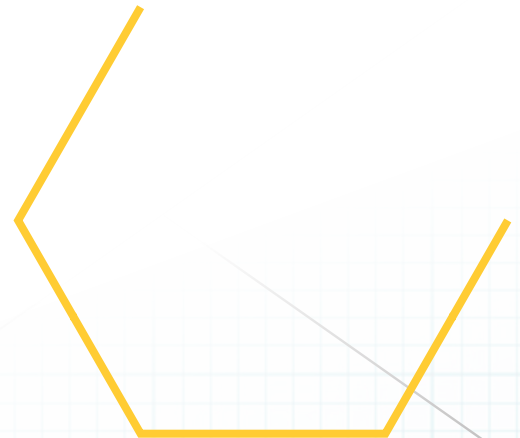
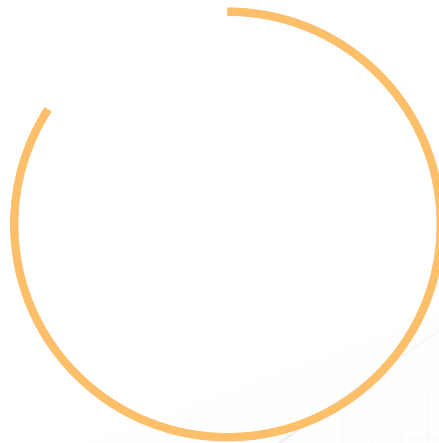
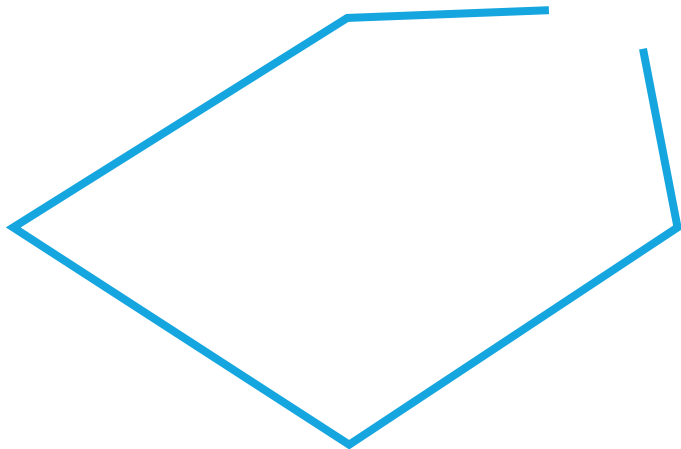




# These are closed figures.



# These are open figures.





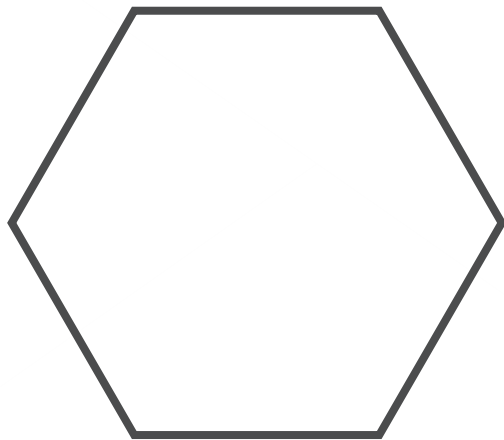
**This is shape reflection.  
The lines of symmetry are marked in yellow.**





**Where should the line of  
symmetry go to show  
shape reflection?**

# This is shape transition.

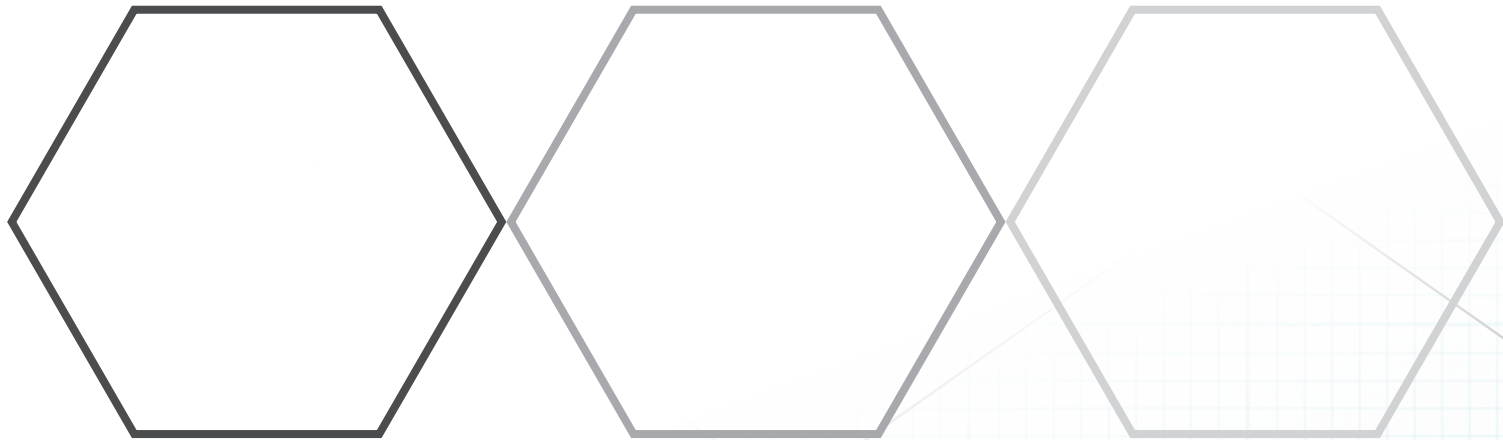


# This is shape transition.





# This is shape transition.



# This is shape rotation.

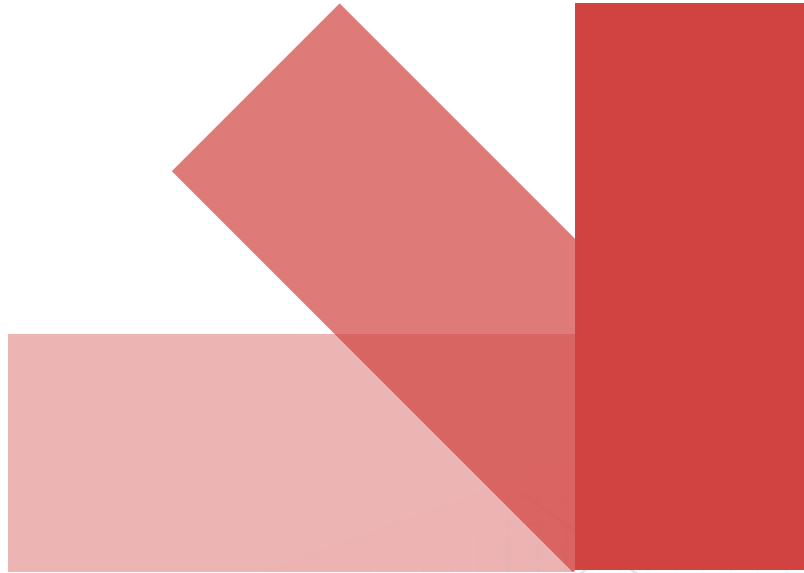


# This is shape rotation.

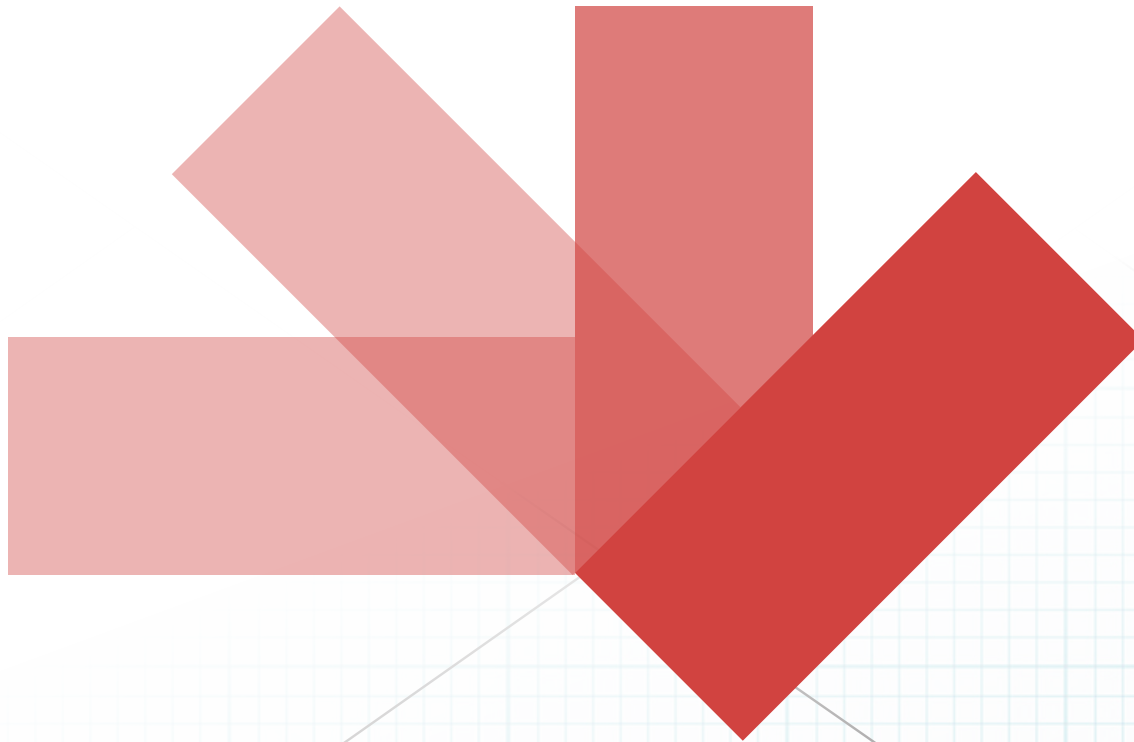




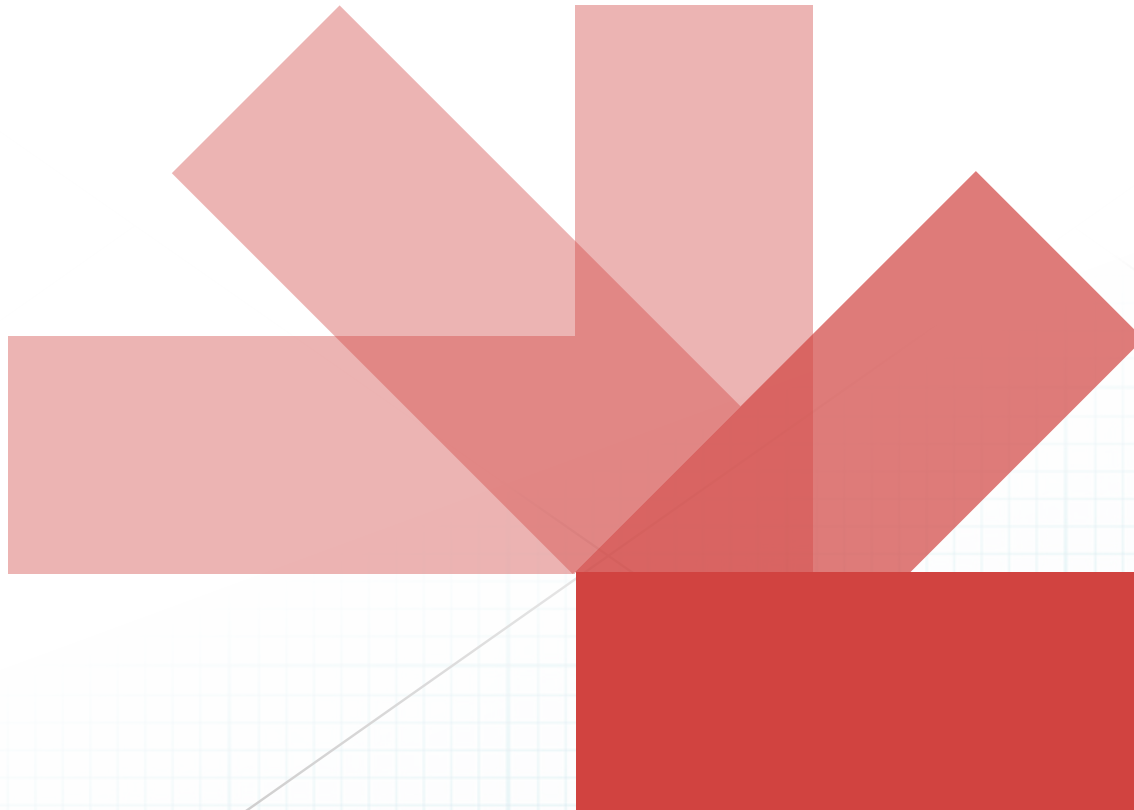
# This is shape rotation.



# This is shape rotation.

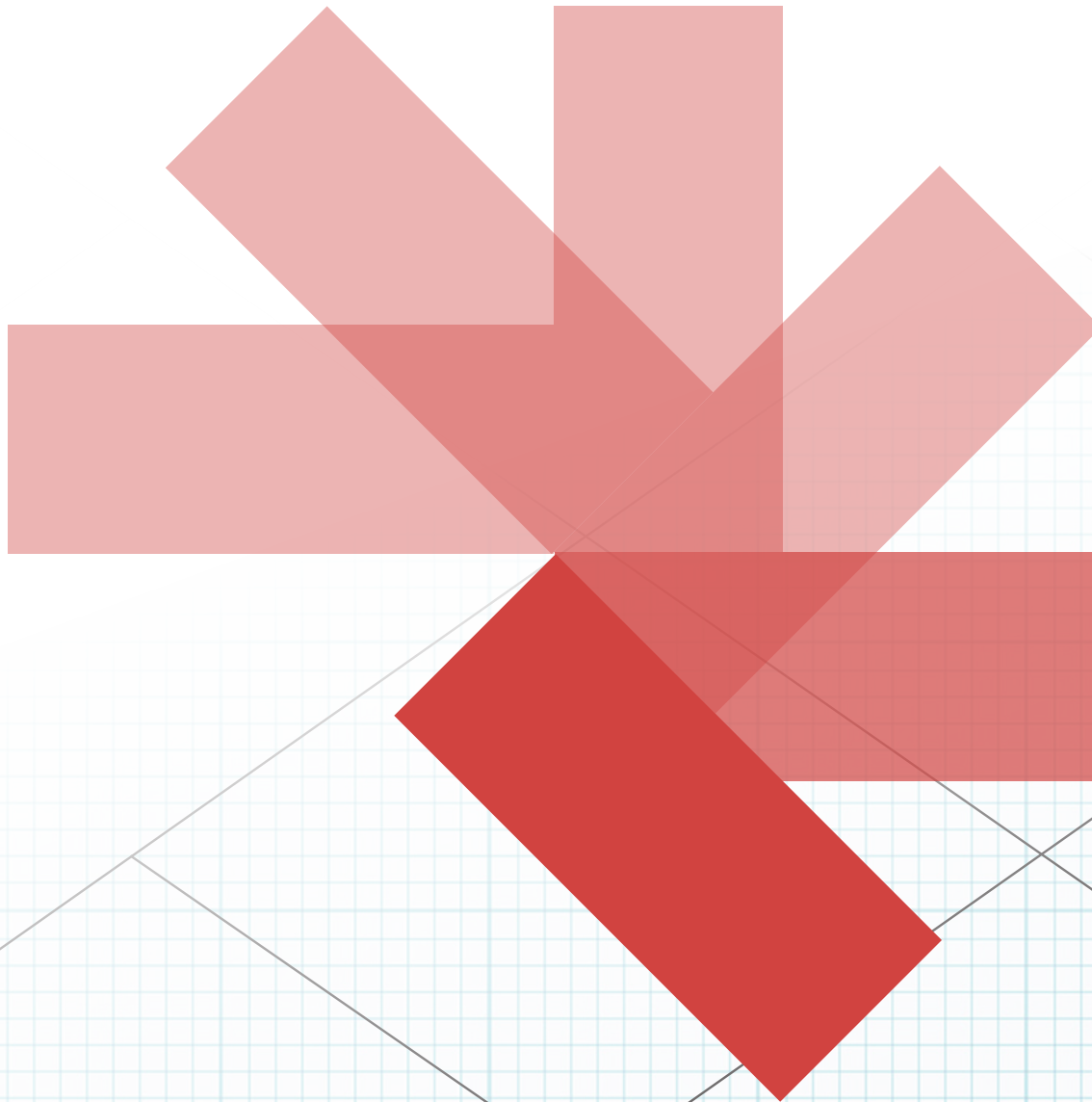


# This is shape rotation.

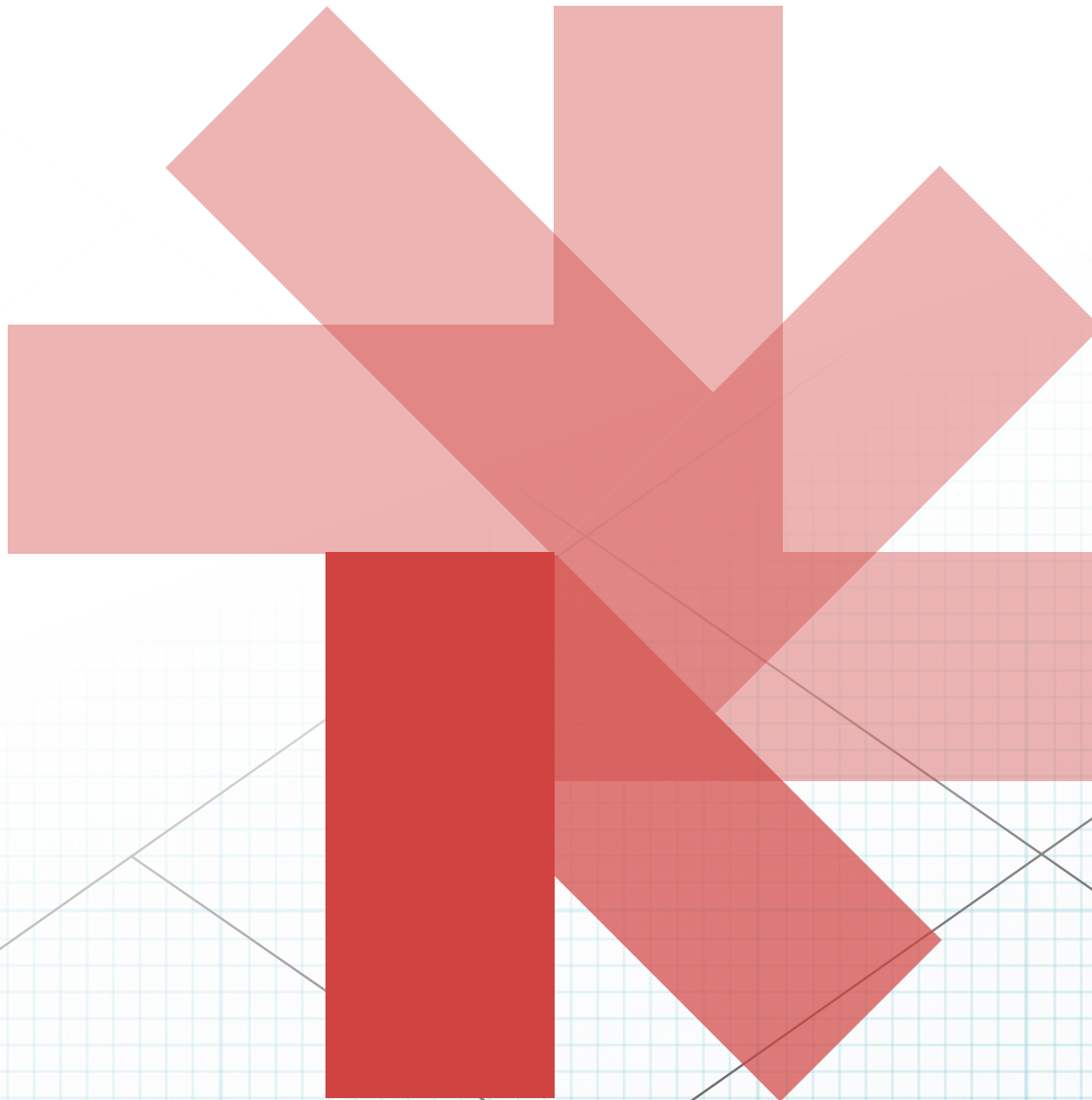




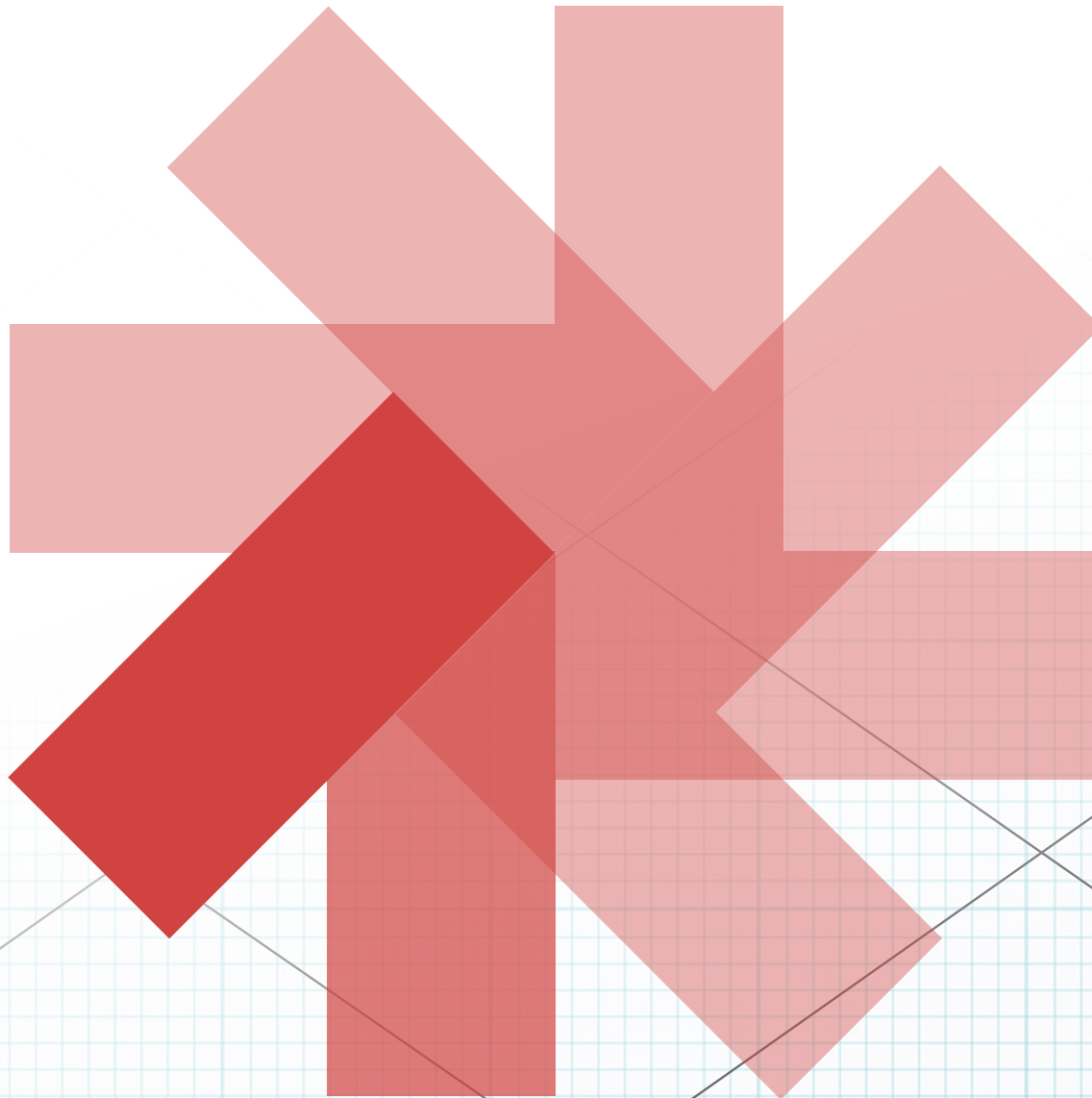
# This is shape rotation.



# This is shape rotation.

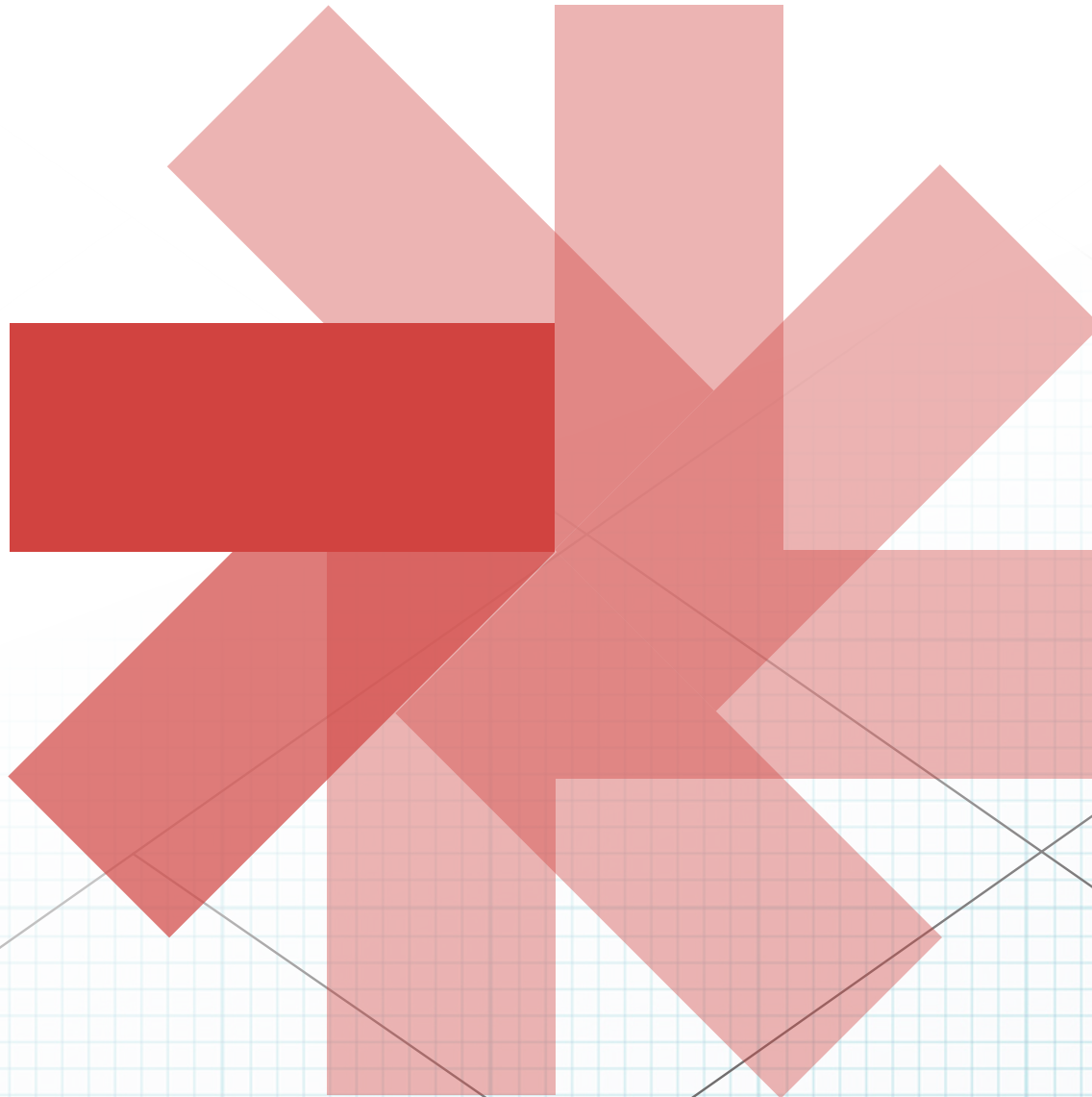


# This is shape rotation.





# This is shape rotation.



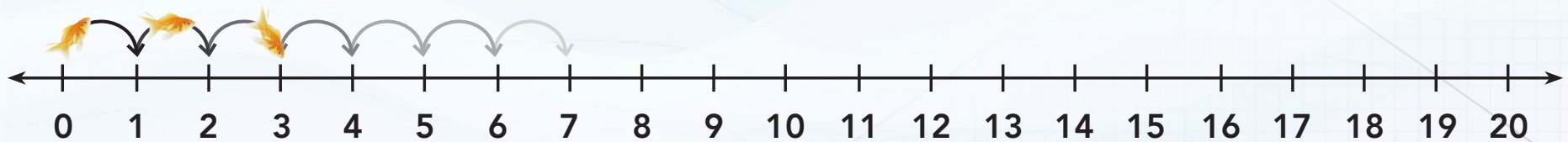
# Part 2: Numbers

# You can count by one.

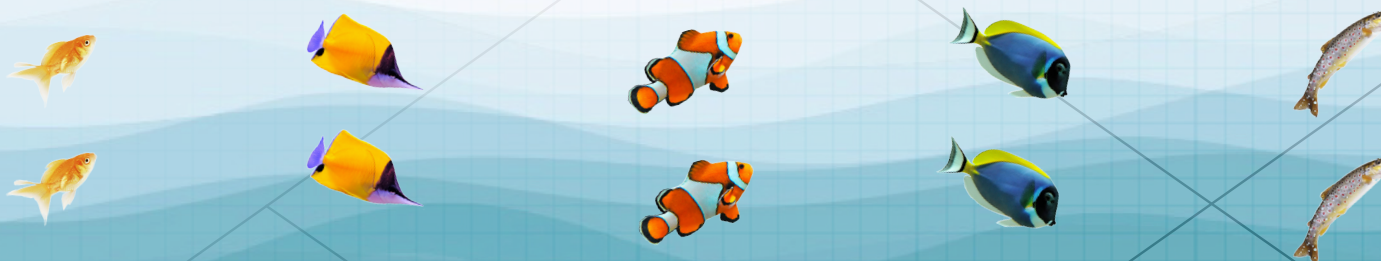
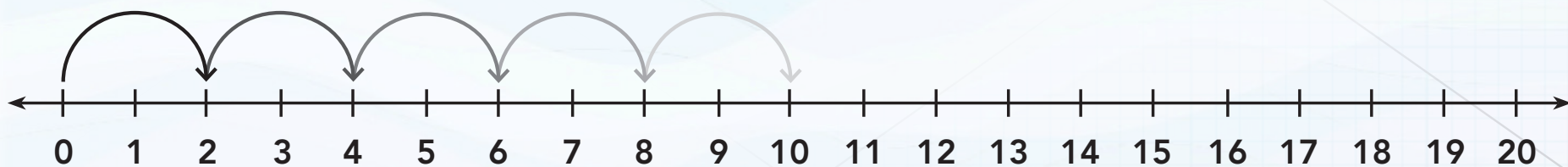




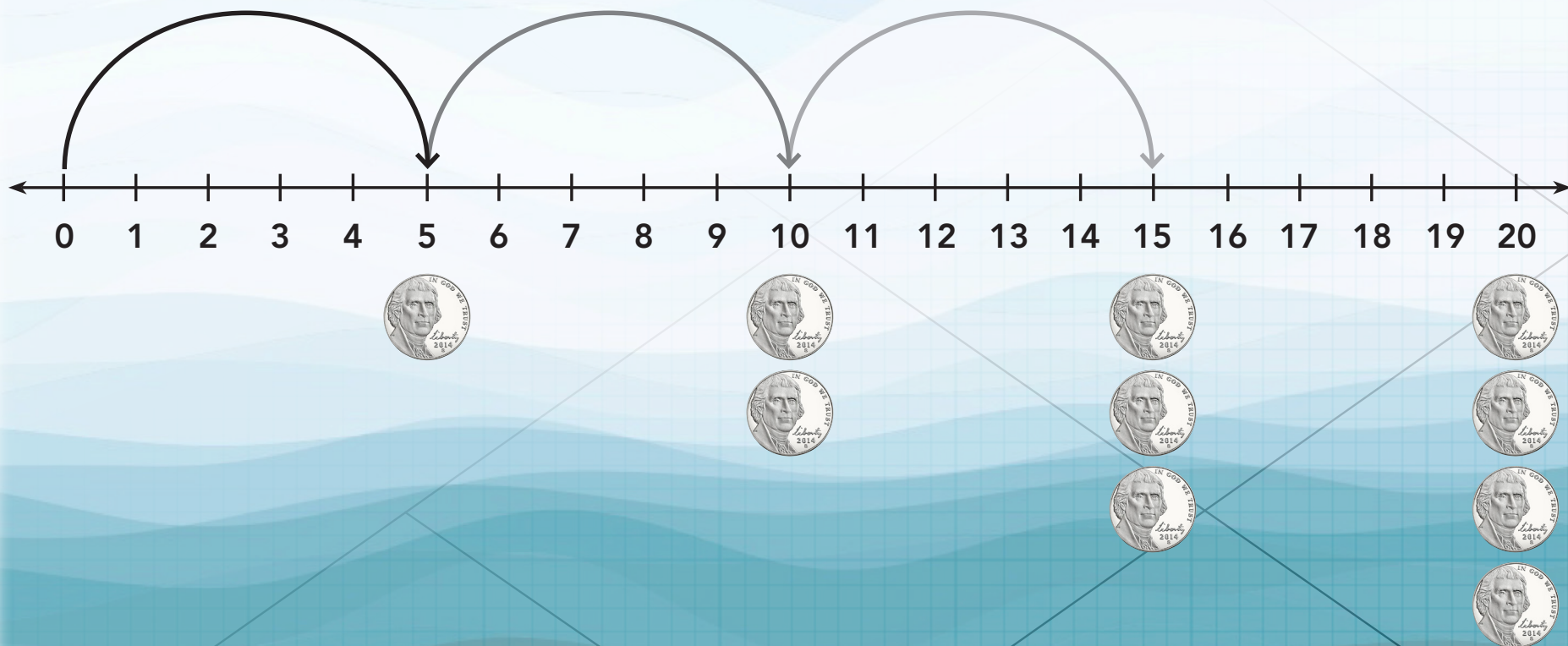
# You can count by one.



# You can count by 2s.

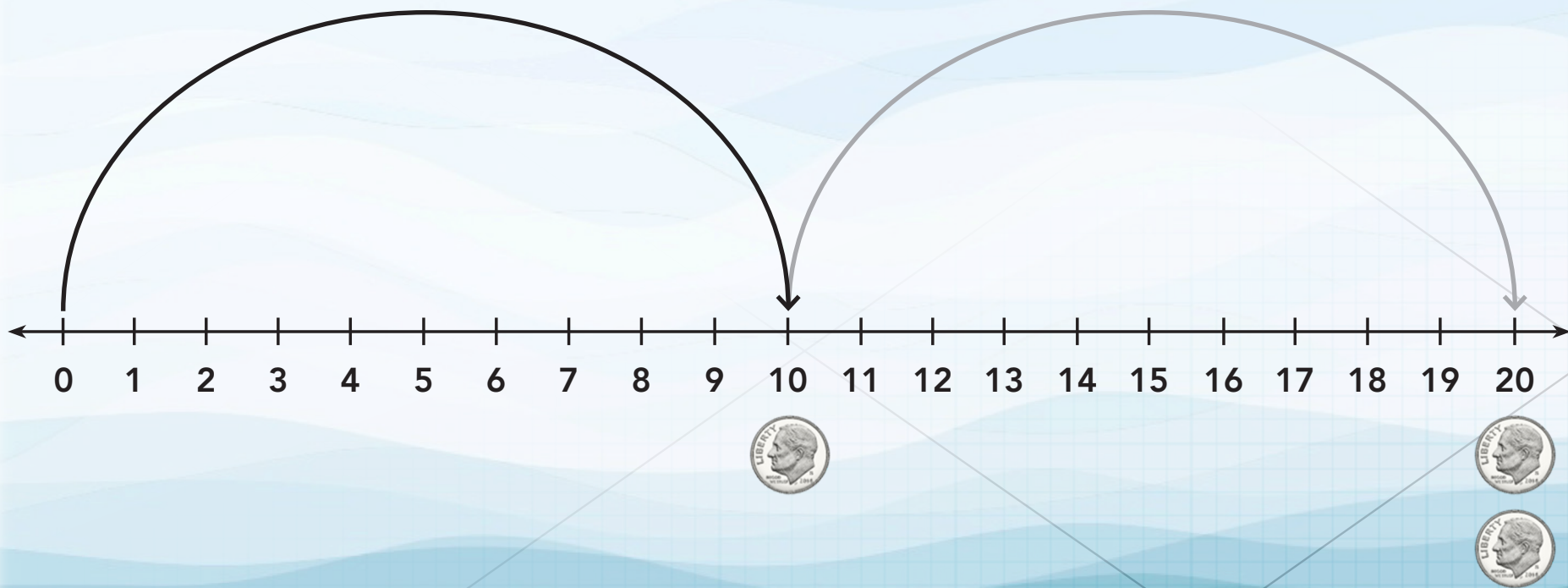


# You can count by 5s.





# You can count by 10s.





# You can count by 100!

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