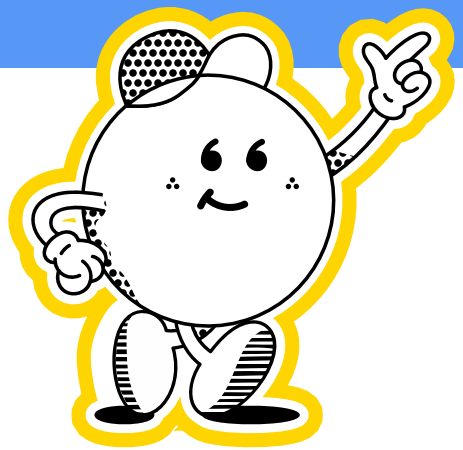
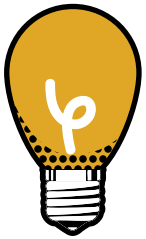
Make Sense of Problems and Persevere in Solving Them.

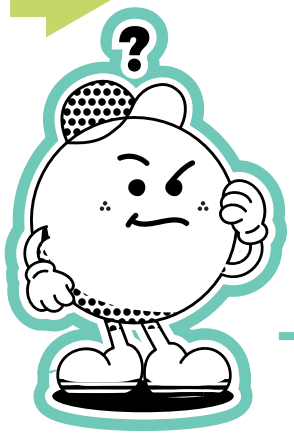


When given a problem, I can make a plan to solve it and check my answer.



BEFORE

Think about the problem. Make a plan to solve the problem.



DURING

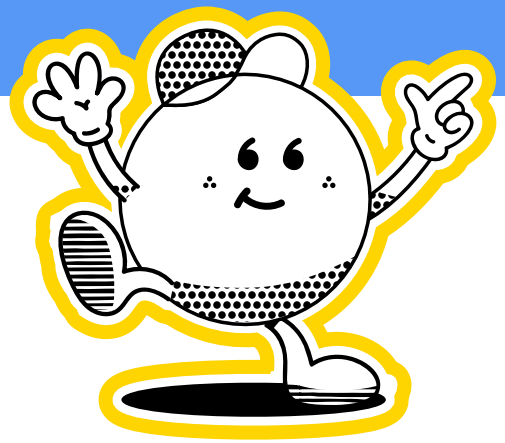
Don't give up!
Ask yourself “Does this make sense?”

AFTER

CHECK my work. Is there another way to solve the problem?

IOWA Department of Education

Reason Abstractly and Quantitatively.



I can use numbers and words to help me make sense of problems.

NUMBERS TO WORDS

2+3=5

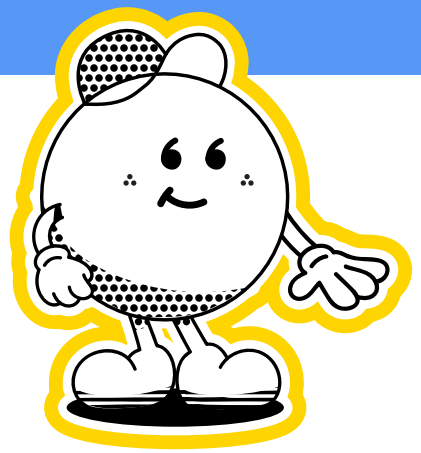
I have 2 yellow flowers and 3 red flowers.
How many flowers altogether?

WORDS TO NUMBERS

I have 2 yellow flowers and 3 red flowers.
How many flowers altogether?

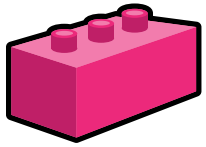
2+3=5

Construct Viable Arguments and Critique the Reasoning of Others.

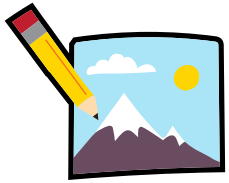


I can explain my thinking and consider the mathematical thinking of others.

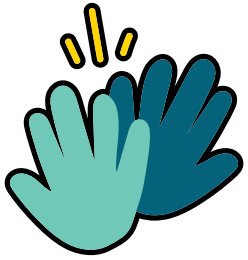
I can explain my strategy using...



Objects

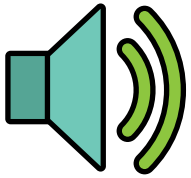


Drawings



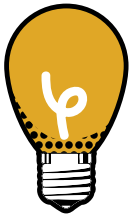
Actions

I can compare my strategy with others by...



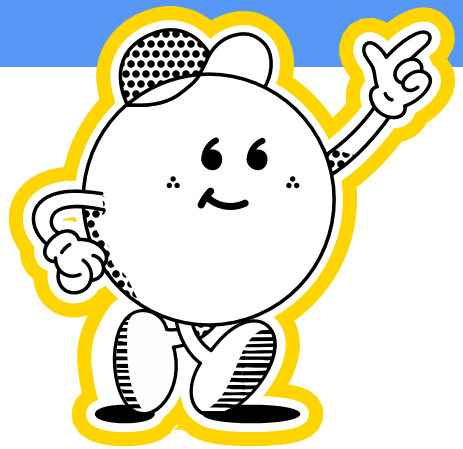
Listening

Asking Questions



Making connections between my own thinking and others

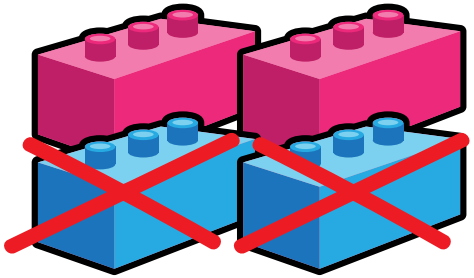
Model with Mathematics.



I can recognize math in everyday life and use math I know to solve problems.

I have **4**. I take **2** away. Now I have **2**.

Words



Objects

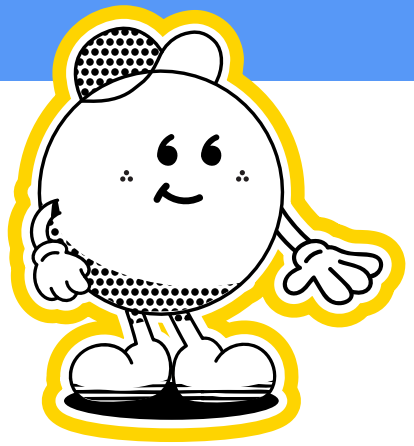
4 birds are in a tree.
2 birds flew away.
How many are left?

Pictures

4-2=2

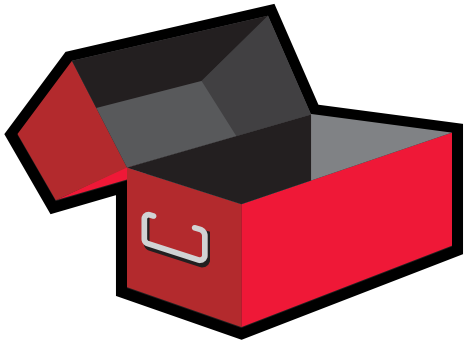
Symbols

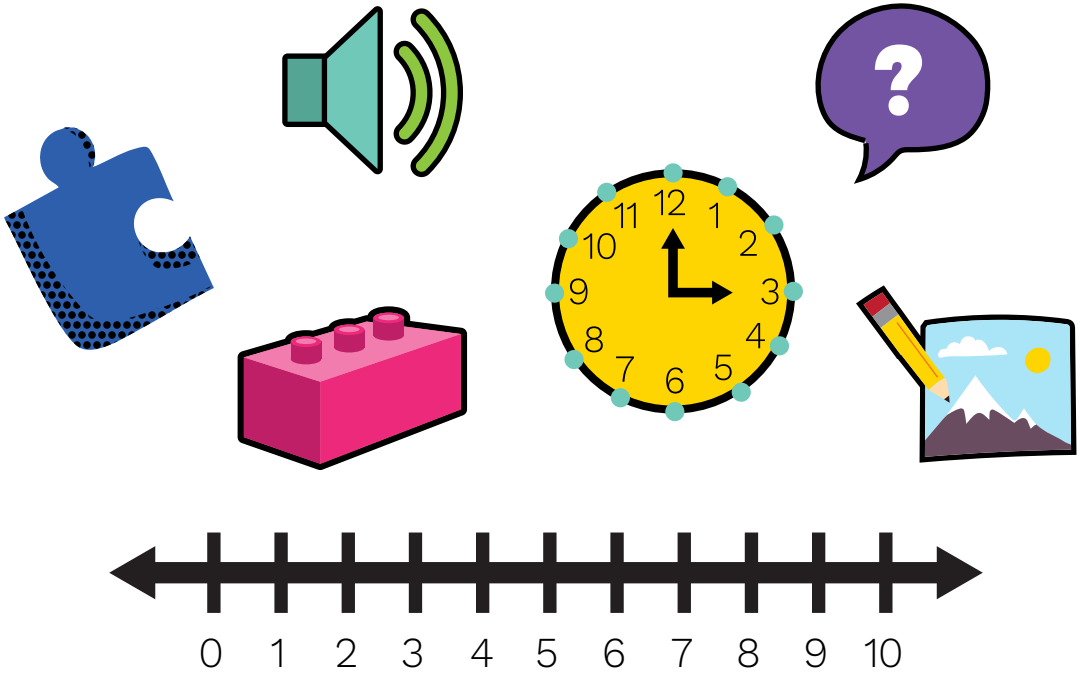
Use Appropriate Tools Strategically.



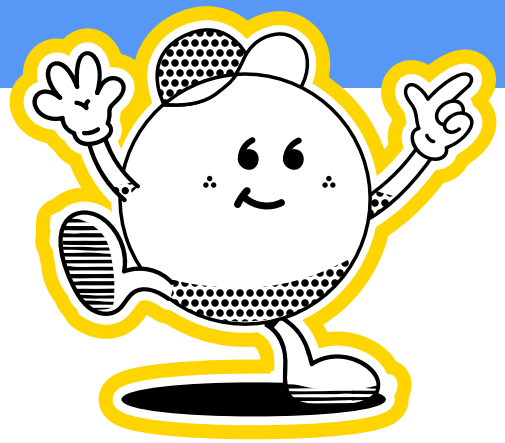
I can use math tools to help me explore and understand math in my world.

I have a math toolbox



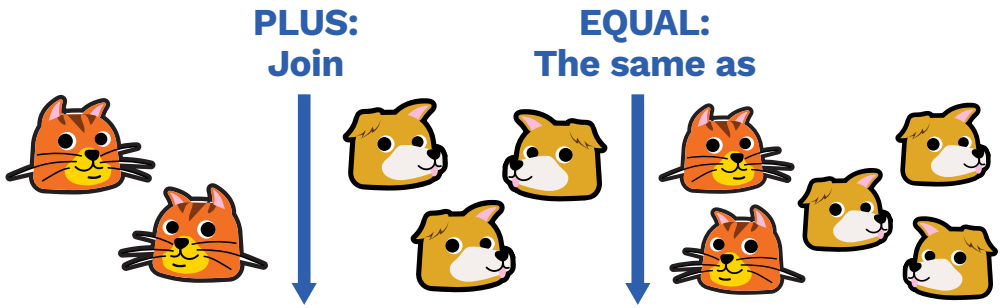


Attend to Precision.



I can be careful when I use math and clear when I share my ideas.

Careful and clear mathematicians use...

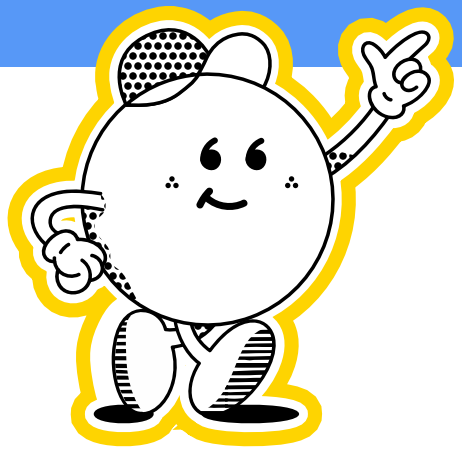


2 cats + **3** dogs = **5** pets

label units

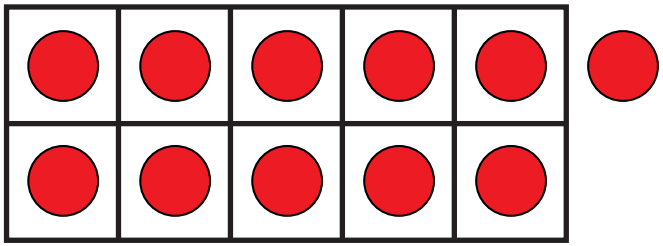
- math vocabulary
- symbols
- labels
- addition and subtraction strategies

Look for and Make Use of Structure.



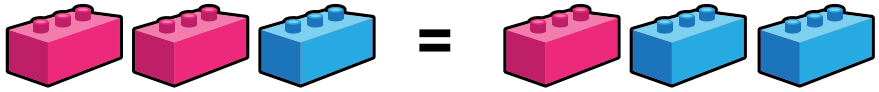
I can see and understand how numbers and shapes are put together as parts and wholes.

Numbers



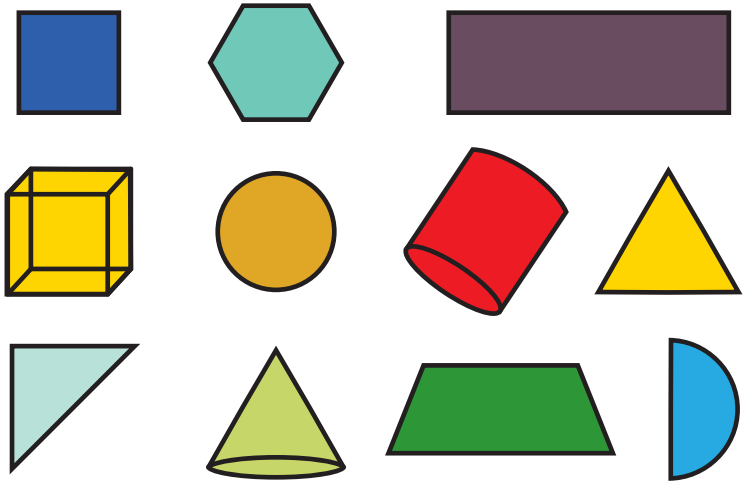
=11

10+1=11

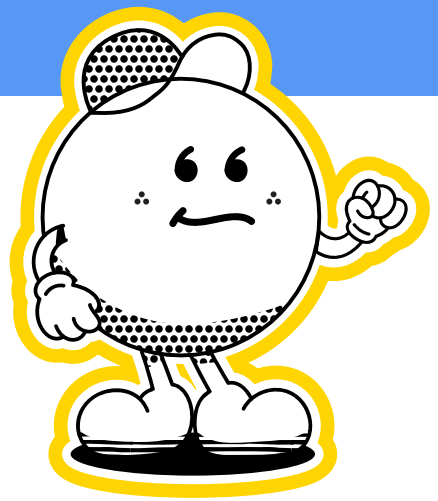


2+1 = 1+2

Shapes



Look for and Express Regularity in Repeated Reasoning.



I can notice when calculations are repeated. I see number patterns!

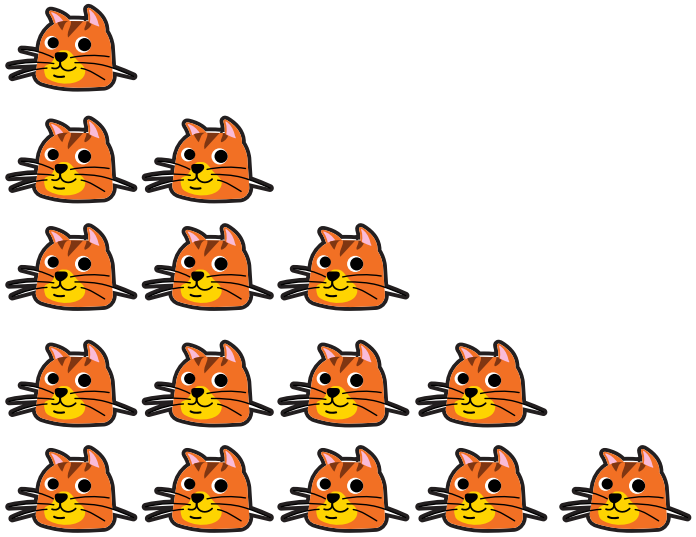
11=10+1 **1**

12=10+2 **2**

13=10+3 **3**

14=10+4 **4**

15=10+5 **5**



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