## Make sense of problems and persevere in solving them.



When given a problem, I can make a plan, carry out my plan, and check my answer.

## BEFORE...

Think about the problem.

Ask myself, "Which strategy will I use?"

Make a plan to solve the problem.

DURING...

## Stick to it!

Ask myself, "Does this make sense?"

Change my plan if it isn't working out.


## AFTER...

CHECK my work.


Ask myself, Is there another way to solve the problem?"

## Reason abstractly and quantitatively. <br> Mathematical Practice 2



## Numbers to Words

$$
\begin{gathered}
26+27=53 \\
\downarrow
\end{gathered}
$$

There are 26 boys and 27 girls on the playground. How many children are on the playground?


## Words to Numbers

There are 26 boys and 27 girls on the playground. How many children are on the playground?


$$
26+27=53
$$

## Construct viable arguments and critique the reasoning of others.



I can explain my thinking and respond to the mathematical thinking of others.

I can explain my strategy using...

- objects, drawings, and actions $\square$
- examples and non-examples
- contexts

I can compare strategies with others by...

- listening

- asking useful questions
- understanding mathematical connections between strategies


## Model with mathematics.

Mathematical Practice 4


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

## I can use....


to solve everyday problems.

## Use appropriate tools strategically.



I can use certain tools to help me explore and deepen my math understanding.


I have a math toolbox.

- I know HOW and WHEN to use math tools.
- I can reason: "Did the tool I used give me an answer that makes
 sense?"


## Attend to precision.



## I can be precise when solving problems and clear when I share my ideas.

Careful and clear mathematicians use...


- math vocabulary
- symbols that have meaning
- context labels
- units of measure
- calculations that are accurate and efficient


## Look for and make use of structure.

Mathematical Practice 7

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

## Numbers

For example:


123
1 hundred, 2 tens, and 3 ones

For example:

## Shapes



These are the same!


Orientation
Attributes

## Look for and express regularity in repeated reasoning. nemerana



## I can notice when calculations are repeated.

$5 \times 2=10$
$2+2+2+2+2=10$
I am adding 2 five times.


I am counting rows with 2 in each row five times.


I am making 5 hops of 2 on the number line.

