THE COMMISSIONER'S **2025 SUMMER MATH CHALLENGE**

Family Learning Beach

Collect 10 rocks or shells. Separate some of the rocks or shells into one group.

- How many are in the other group?
- How many different ways can you break apart the number 10?
- Use the rocks or shells to show your thinking.

Family Learning Farmer's Market

Farmer's markets sell mostly fruits and vegetables. Choose two different fruits or vegetables.

- What do you notice?
- What is the same about them?
- What is different?

Family Learning Gardening

If you can plan a trip to a garden center, what are your two favorite plants? *(If you can't make it to a garden center, you can research two favorite plants or may already have two favorites.)*

- If you were going to buy 10 plants, and it could only be these two favorites, how many of each plant could you buy?
- Create a representation to show what you would purchase.

Family Learning Walk or Hike

When you are on your hike look for items to compare. What do you notice about the items?

- Trees — Which is taller?
- Rocks — Which is heavier?
- Sticks — Which is longer?

Explain how you know.

Family Learning Playground

Playgrounds are full of flat and solid shapes. Head to your local playground and see how many you can find. Draw them here and try to label what part of the playground you found each shape. (Look for flat shapes like: triangles, squares, rectangles and circles. Look for solid shapes like: cubes, cones, cylinders and spheres.)

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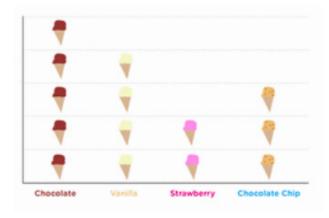
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Family Ice Cream Shop

Favorite Ice Cream Flavors
(Each cone = 1 person)

Chocolate   Vanilla   Strawberry   Chocolate Chip

1. How many people like chocolate chip the most?

2. How many people like chocolate the most?

3. How many more people like vanilla than strawberry?

4. What is the most popular ice cream flavor?

5. Make up your own question about the graph.

6. What is your favorite ice cream flavor and why?

Family Learning Movement

The Numberline
(adapted from Youcubed At Home)

Draw a number line from 0–10 or 0–20 outside with even spacing. Pick a number to start. Take turns calling out directions like add 3, take away 2, etc. All kids move or hop three spaces to the right, two spaces to the left, etc.

- After each move, notice what number you're on. Where did you start and how many jumps did you make?

- If more than one person is on the numberline, what do you notice about the distance between you and the other player? Is it the same? Is it different? What is the distance? Does this happen every time you all jump? Why or why not? (Make sure you count the spaces between and not the lines!)

- As you call out directions for adding or taking away, include a fun way to move along the spaces such as adding 3 by hopping on one foot for each space, taking away 5 by spinning each space, etc.

- How far away from 10 are you?

- If you are playing with two people, have one stand on a single digit number and the other on the corresponding teen number (e.g., 5 and 15). How far apart are you? Add 2. Now how far apart? What do you notice?

Variations

Draw a number line with spaces in increments of 10 up to 100 (0, 10, 20, etc.) with a little more space between.

- Ask questions such as, "What numbers are between…?"; "Where would 16 go?"; or "Where would 82 go?"

- Or, play Number Riddles. Example: I'm thinking of a number that is greater than 20 but less than 30. What number could it be? Have kids find a spot that matches your riddle and explain why it fits. How far away is their number from 20? From 30?