Scoop Count Secrets

Can different containers hold the same amount?

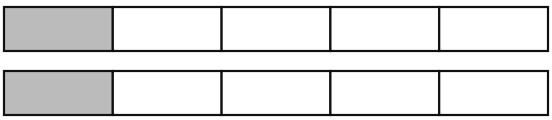
2.GM.2.3 "Explore how varying shapes and styles of containers can have the same capacity."

NAME _____ DATE _____

SAME CAPACITY

Each bar stands for one container. Each filled box stands for one same-size scoop of water the container can hold. If the bars have the same number of filled boxes, the containers have the same capacity.

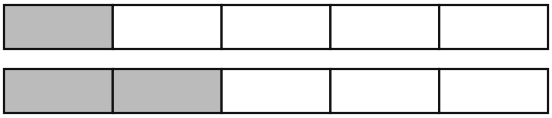
A tall jar and a wide bowl each hold one scoop.



DIFFERENT CAPACITY

Each filled box stands for one same-size scoop of water a container can hold. If the bars have different numbers of filled boxes, the containers have different capacities.

A slim vase holds one scoop, but a low pan holds two scoops.



1 SORT

8 items

Circle SAME or DIFFERENT for each figure, then pick two figures and explain how you know where each belongs.

1.

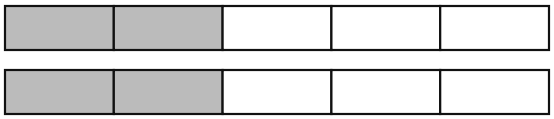


Figure 1

SAME DIFFERENT

2.

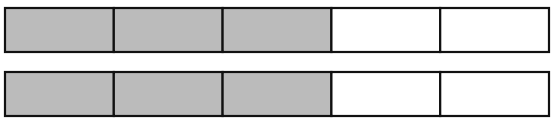


Figure 2

SAME DIFFERENT

3.

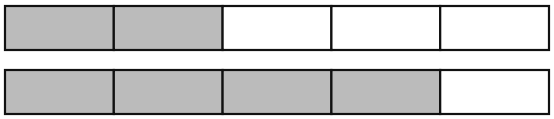


Figure 3

SAME DIFFERENT

4.

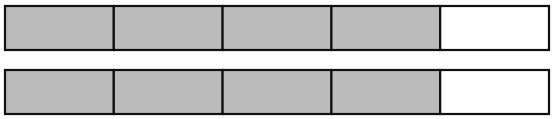


Figure 4

SAME DIFFERENT

5.

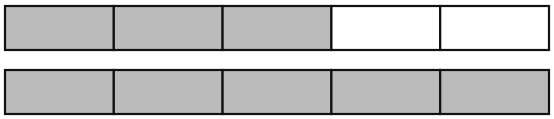


Figure 5

SAME DIFFERENT

6.

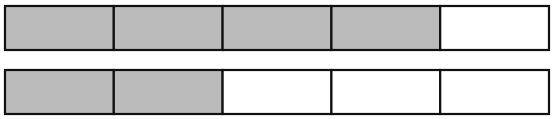


Figure 6

SAME DIFFERENT

7.

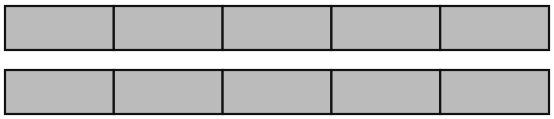


Figure 7

SAME DIFFERENT

8.

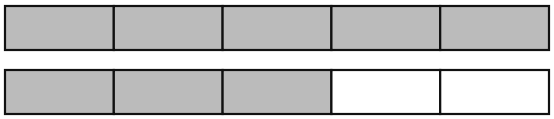


Figure 8

SAME DIFFERENT

2 PROVE IT

Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

Write about two containers that hold the same number of scoops, then write about two containers that hold different numbers of scoops.

SAME _____

DIFFERENT _____

CHALLENGE

Can a tall container and a short container have the same capacity? Explain using scoops.

ANSWER KEY # Scoop Count Secrets

GRADE 2 · 2.GM.2.3

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (fractionbars)	**SAME**	Both bars show 2 scoops.
2	Figure 2 (fractionbars)	**SAME**	Both bars show 3 scoops.
3	Figure 3 (fractionbars)	**DIFFERENT**	The bars show 2 and 4 scoops.
4	Figure 4 (fractionbars)	**SAME**	Both bars show 4 scoops.
5	Figure 5 (fractionbars)	**DIFFERENT**	The bars show 3 and 5 scoops.
6	Figure 6 (fractionbars)	**DIFFERENT**	The bars show 4 and 2 scoops.
7	Figure 7 (fractionbars)	**SAME**	Both bars show 5 scoops.
8	Figure 8 (fractionbars)	**DIFFERENT**	The bars show 5 and 3 scoops.

PART 2 · PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **SAME**: A cup and a bowl each hold 6 scoops of water.
- **DIFFERENT**: A bucket holds 7 scoops of water, but a jug holds 8 scoops.

Challenge: Yes. A tall container and a short container can each hold 9 scoops of water, so they have the same capacity.

For the two explanations, accept any two figures with reasons that compare their filled-box counts. The scoops must be the same size when comparing capacities.