



a place of mind

FACULTY OF EDUCATION

Department of
Curriculum and Pedagogy

Mathematics

Shape and Space: Measurement (Volume)

Science and Mathematics
Education Research Group

Measurement: Volume



Measurement: Volume I

Which container can hold more yogurt?

A.



B.



Solution

Answer: B

Justification: Yogurt B's container is bigger than Yogurt A's container. Therefore, Yogurt B can hold more yogurt. It is not Yogurt A because the container is smaller and is able to contain less.

A.



B.



Measurement: Volume II

Which crayon box can hold more crayons?

A.



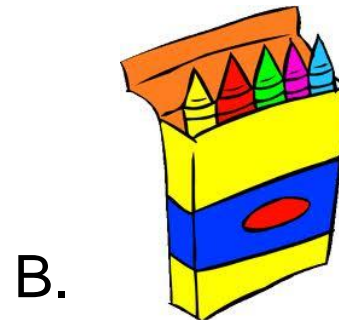
B.



Solution

Answer: A

Justification: Crayon box A holds 12 crayons inside and Crayon box B holds 5 crayons inside. 12 is greater than 5. Therefore, Crayon box A can hold more crayons.



Measurement: Volume III

Which building can hold less people?

A.



B.



Solution

Answer: A

Justification: The house is smaller than the apartment. Therefore, the house can hold less people, as it has less rooms. It is not the apartment because it is bigger, has more room, and can fit more people.

A.



B.



Measurement: Volume IV

Which bottle would you use to carry more water?

A.



B.



Solution

Answer: B

Justification: A water bottle is approximately 750 mL and a large jug of water is approximately 3.8 L. Bottle B is larger than Bottle A and can therefore hold more water.

A.



B.



1000 **milli**litres = 1 litre
1000 **milli**metres = 1
metre

Measurement: Volume V

Which has more water?

A.



B.



Solution

Answer: B

Justification: The bottles of water in A and B are the same size. 6 is greater than 2. Therefore 6 bottles of water is greater than 2 bottles of water.

B.



Measurement: Volume VI

It is healthy to drink water. How many bottles of water would be healthy to drink in a day?

A.



B.



Solution

Answer: B

Justification: A 4-8 year old child should drink about 5 cups of water or other beverages per day. Therefore it would be healthier to drink about 3 bottles of water per day than 1.

B.



Measurement: Volume VII

Which option lists the amount of water from **most to least**?

A.



B.



Solution

Answer: A

Justification: A 3.8 L bottle is larger than a 750 mL (0.750 L) bottle of water, which is larger than a cup of water (250 mL or 0.250 L). Therefore the answer is A. It is not B because a bottle of water is larger than a cup of water.

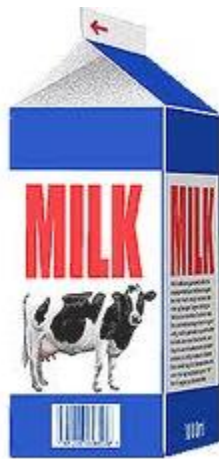
A.



Measurement: Volume VIII

Which container has the least milk?

A.



B.



C.

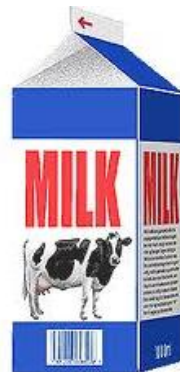


Solution

Answer: B

Justification: A cup of milk is less than a 2 L container of milk, which is less than a 4 L jug of milk. Therefore the answer is B.

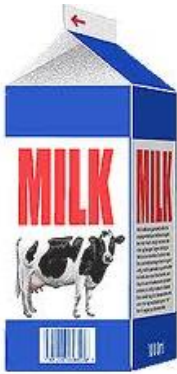
The containers are listed from smallest to largest below.



Measurement: Volume IX

Which option lists the amount of milk from **least to most**?

A.



B.



Solution

Answer: B

Justification: A cup of milk is less than a 2 L container of milk, which is less than a 4 L jug of milk. Therefore the answer is B. It is not A because a cup of milk is less than a 2 L container of milk.

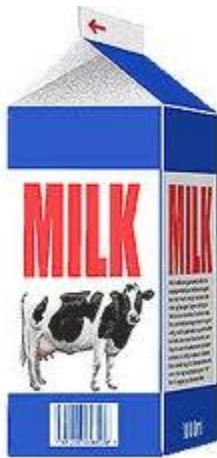
B.



Measurement: Volume X

Your friends come to visit. Which container of milk would you choose so that you will have enough to share?

A.



B.



C.



Solution

Answer: C

Justification: The answer is the 4 L jug of milk . It is not a cup of milk because it is only enough for one person. Depending on the number of friends you have invited and the amount of milk they would like to drink, a 2 L container of milk may or may not be enough. The best choice is the 4 L jug of milk because it is the largest so you are sure to have enough for all of your friends.

Measurement: Volume XI

The cup of milk can hold _____ the cup of chocolate milk.

A. less than

B. more than

C. almost the same as



Solution

Answer: C

Justification: The two cups are about the same size. Therefore, the cup of milk can hold almost the same as the cup of chocolate milk.

C.



Measurement: Volume XII

Which balloon holds more air?

A.



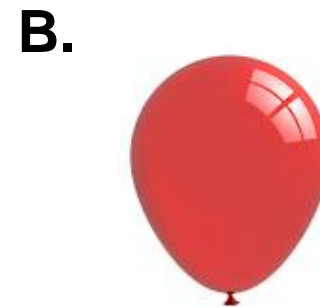
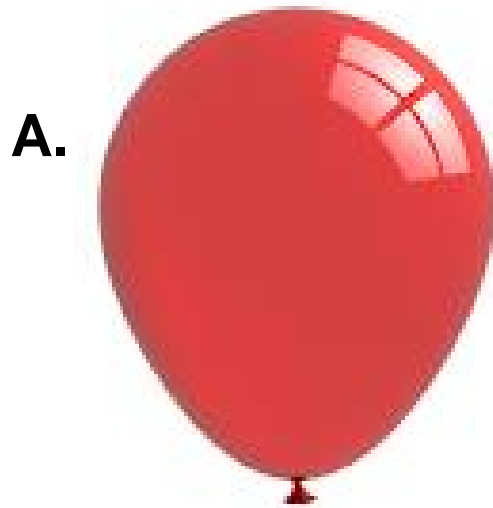
B.



Solution

Answer: A

Justification: Balloon A is larger than Balloon B.
Therefore, Balloon A holds more air than Balloon B.



Measurement: Volume XIII

Which balloon takes longer to blow up?

A.



B.



Solution

Answer: B

Justification: Balloon B is larger than Balloon A. Therefore, Balloon B holds more air than Balloon A and would take longer to blow up.

A.



B.



Measurement: Volume XIV

Which balloon would take less time to deflate?

A.



B.



Solution

Answer: A

Justification: Balloon A is smaller than Balloon B. Therefore, Balloon A holds less air than Balloon B and would take less time to deflate.

A.



B.



Measurement: Volume XV

Which cup accurately represents the amount it can hold?

A.



B.



C.



Solution

Answer: C

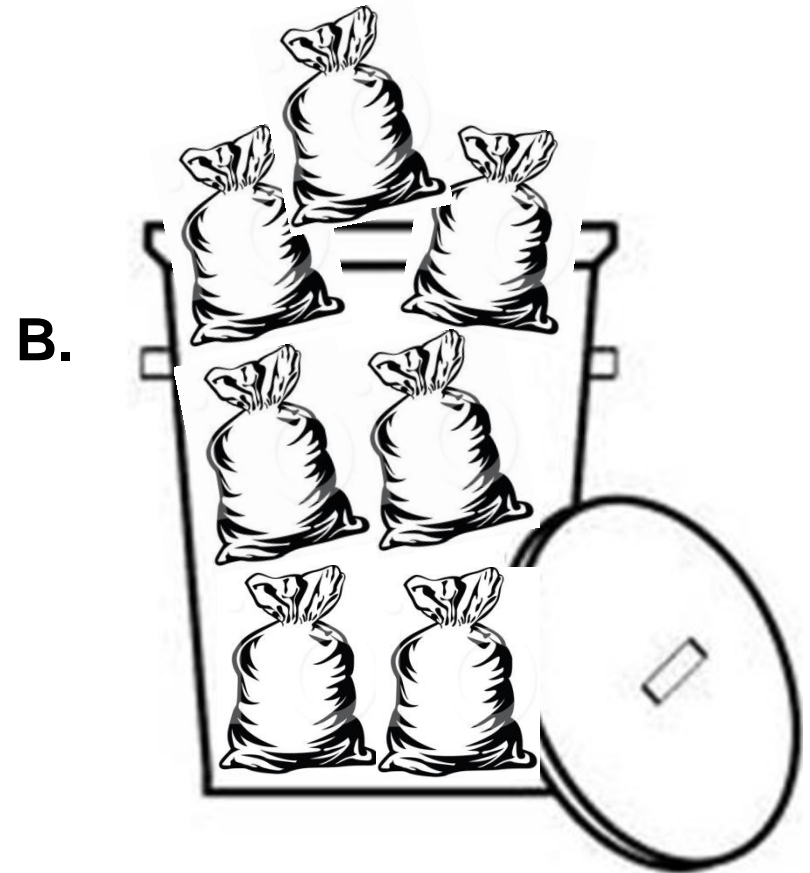
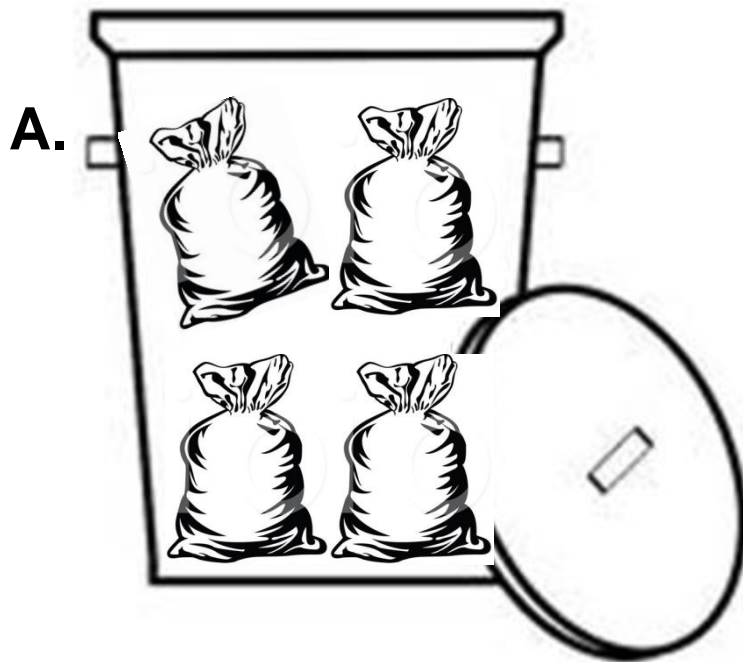
Justification: The objective is to hold the greatest amount of water the cup can contain. Therefore the answer is C because it is filled yet not over spilling. It is not A or B because the cups are not yet full and can contain more water.

C.



Measurement: Volume XVI

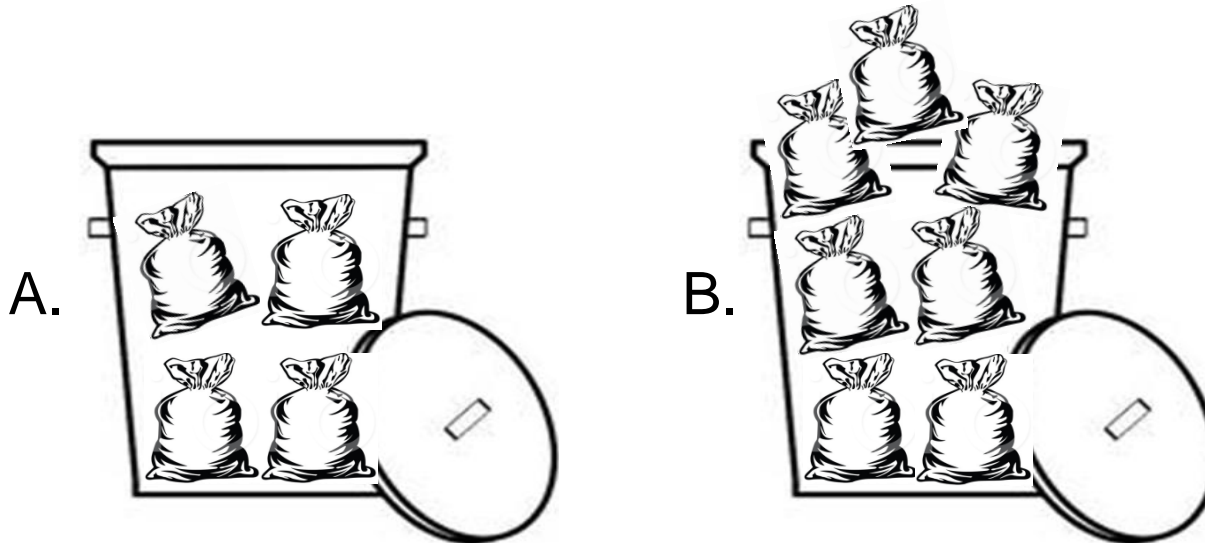
Which garbage can more accurately represents the amount it can hold?



Solution

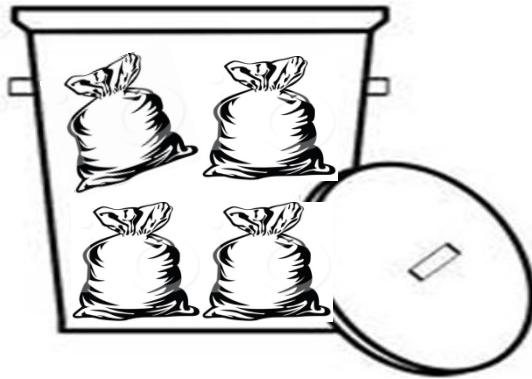
Answer: A

Justification: The objective is to hold the greatest amount without spilling over the garbage can. Therefore, the answer is A because it is filled yet not over spilling. It is not B because the garbage can is over spilling and the lid would not fit.

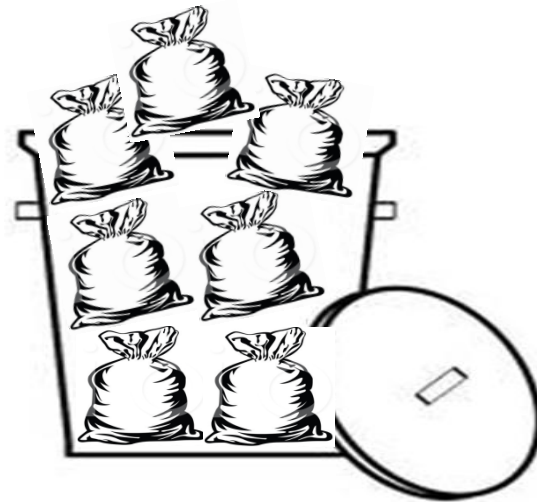


Measurement: Volume XVII

The garbage can is able to hold about _____.



A. 4 bags of garbage

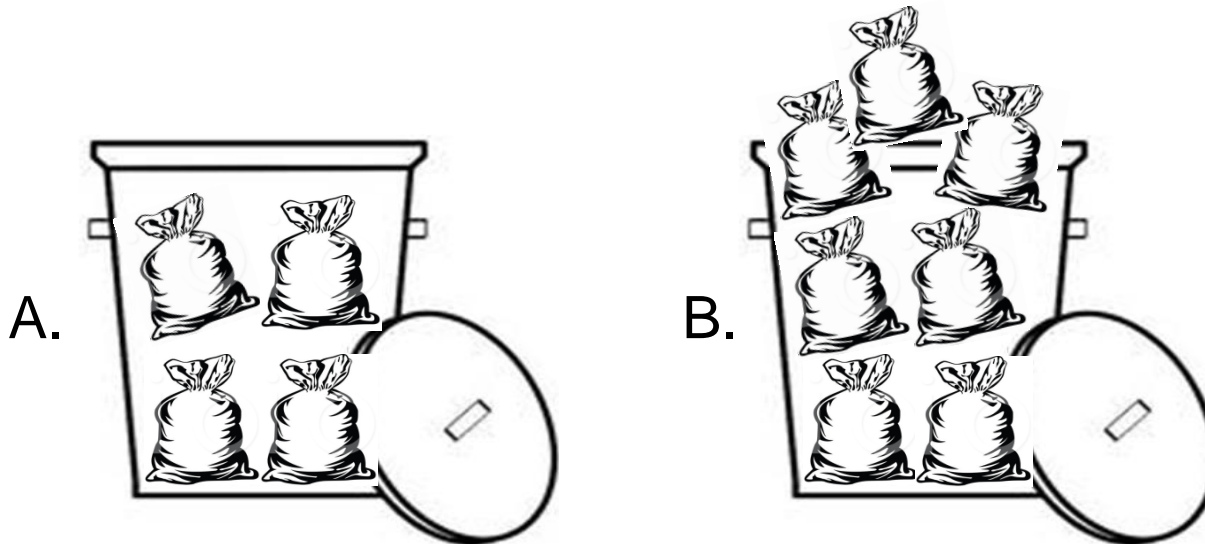


B. 7 bags of garbage

Solution

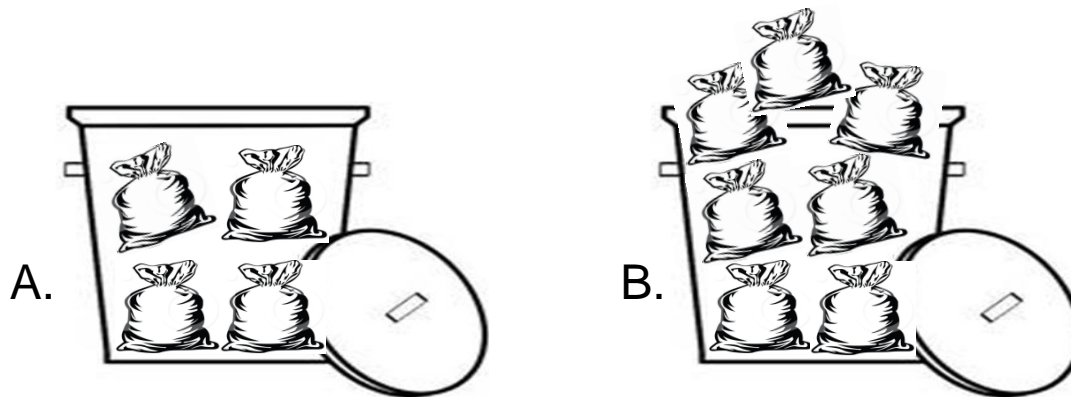
Answer: A

Justification: The objective is to hold the greatest amount without overspill. Therefore, the answer is 4 bags of garbage because it is filled yet not over spilling. It is not 7 bags of garbage because it is over spilling and the lid would not fit.



Measurement: Volume XVIII

Both garbage cans are the same size. Can A can hold _____ Can B.



A. more than

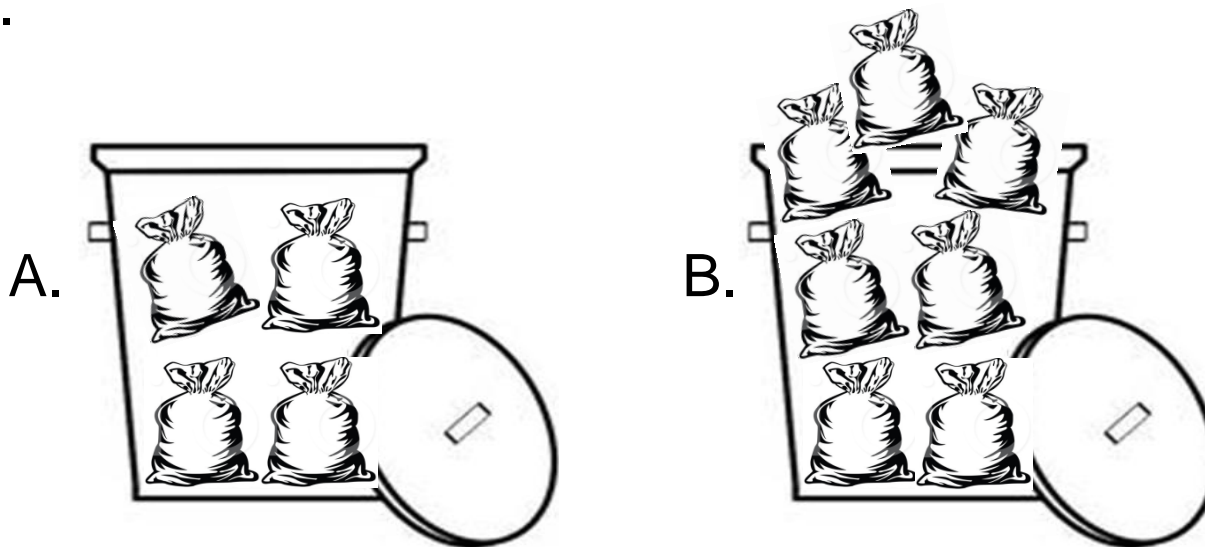
B. less than

C. the same as

Solution

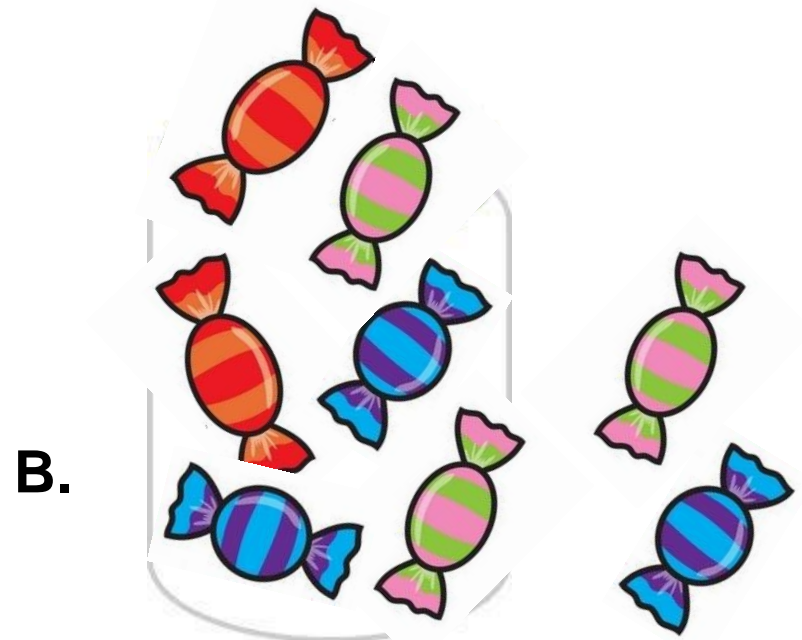
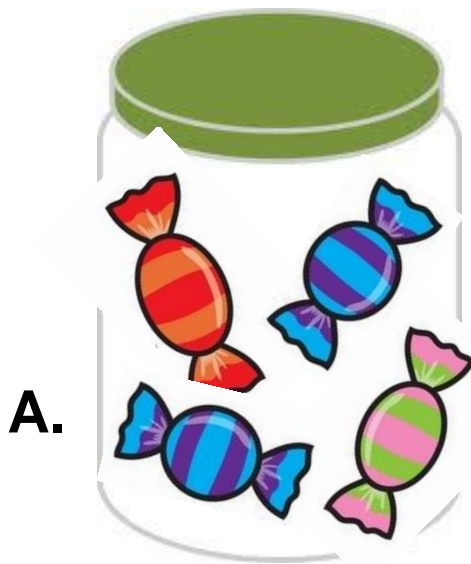
Answer: C

Justification: Can A and Can B are both the same size, and should be able to hold the same amount. Therefore Can A can hold the same as Can B. Although Can A seems to hold less because there are only 4 bags of garbage, Can B is over spilling and is not able to close the lid with 7 bags of garbage.



Measurement: Volume XIX

Which jar below more accurately represents the amount of candies it can hold?



Solution

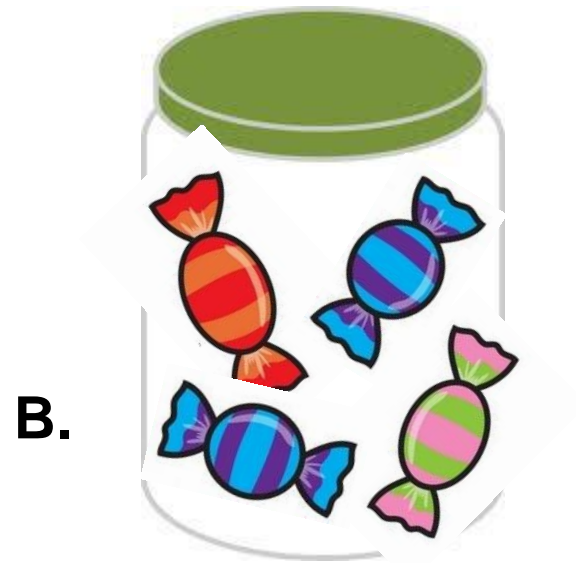
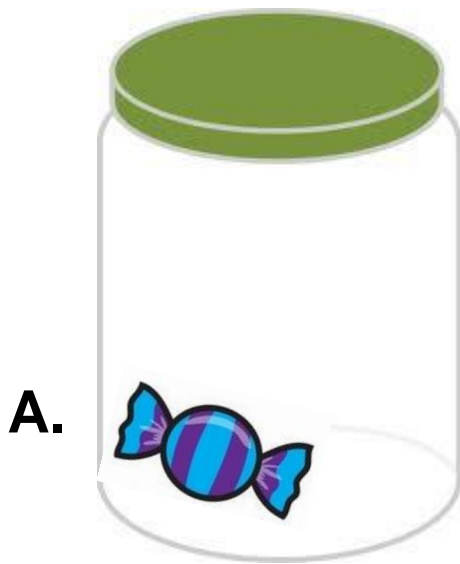
Answer: A

Justification: The objective is to hold the greatest amount without overspill. Therefore, the answer is A because it is filled yet not over spilling. It is not B because the candy are over spilling and cannot fit into the jar.



Measurement: Volume XX

Which jar below more accurately represents the amount of candy it can hold?



Solution

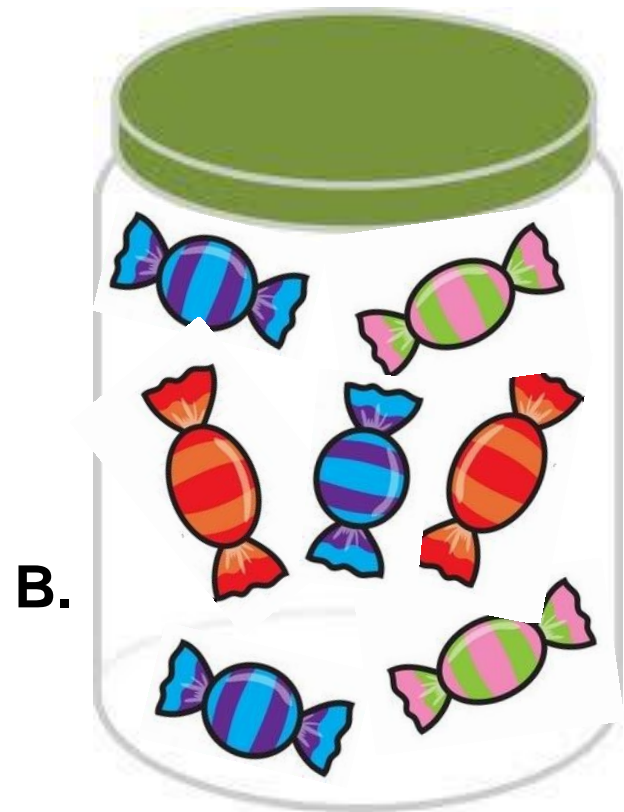
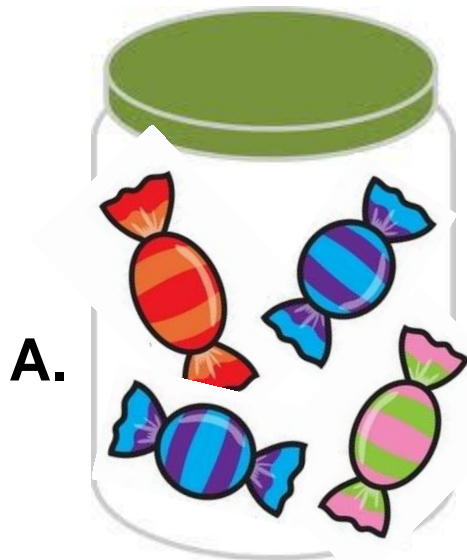
Answer: B

Justification: The objective is to hold the greatest amount. Therefore, the answer is B because it is filled yet not spilling over. It is not A because there is more room to fill up more candy.



Measurement: Volume XXI

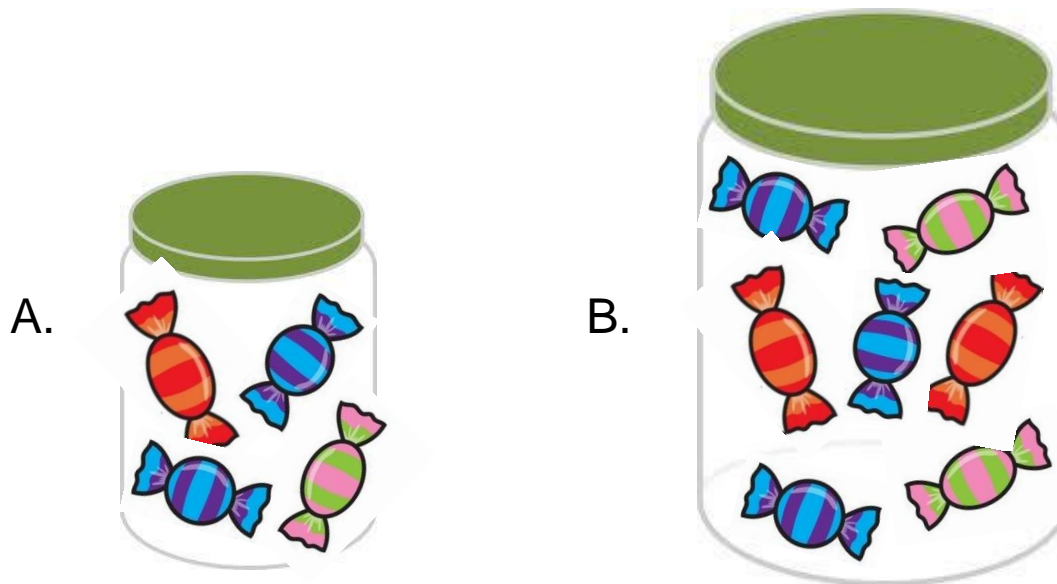
Which jar can be filled up with more candy?



Solution

Answer: B

Justification: Jar B is larger than Jar A. Therefore Jar B can hold more candy than Jar A.



Measurement: Volume XXII

Which jar has less candy to share with friends?

A.



B.



Solution

Answer: A

Justification: Jar A is smaller than Jar B. Jar A holds less candy in comparison to Jar B. Therefore Jar A has less candy to share with friends.

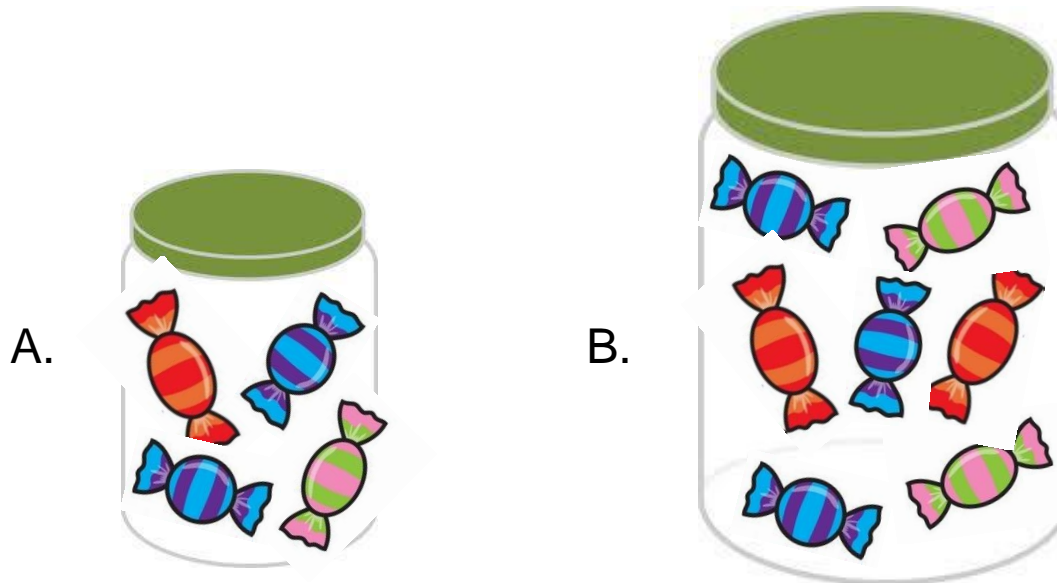


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