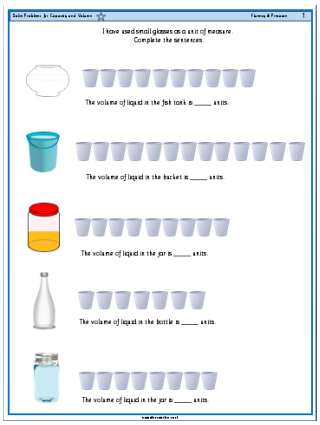
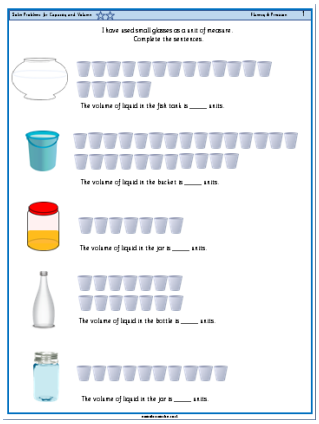
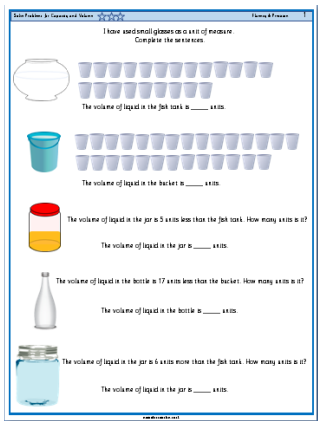
Lesson 8 – Capacity and Volume – Measure Capacity

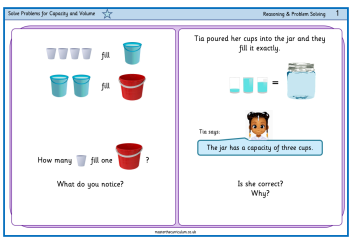
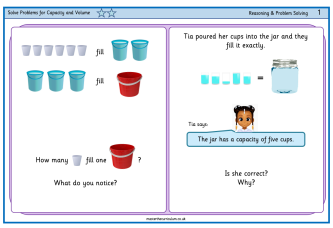
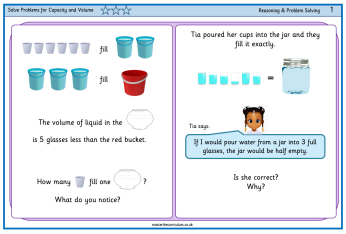
NC Objective:	Resources needed:	Vocabulary:
Compare, describe and solve practical problems for mass/weight: [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]	Differentiated Sheets Teaching Slides Non-standard units of measure/ cup/spoons	Capacity, measure, containers, non-standard units of measure, bowls, liquid, full

Children measure the capacity of different containers using non-standard units of measure. They understand that the unit of measure must stay the same, for example the same cup, the same spoon etc. They understand to measure accurately, they must make each container or non-standard measure full.

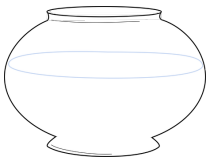
Key Questions:
How can we measure how much liquid will fill my container?
What could I use?
How many bowls of liquid fill the bottle?
How many cups of liquid fill the bottle?
How is this different? How is this the same?

★ Working Towards	★★ Working Within	★★★ Greater Depth
		
Children on this sheet count cups less than 20.	Children on this sheet count cups over the number 20.	Children on this sheet work out the volume using their problem solving skills.

Reasoning & Problem Solving

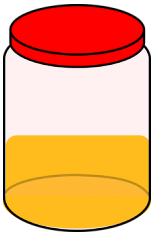
		

I have used small glasses as a unit of measure.
Complete the sentences.



The volume of liquid in the fish tank is _____ units.

The volume of liquid in the bucket is _____ units.

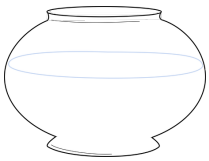


The volume of liquid in the jar is _____ units.

The volume of liquid in the bottle is _____ units.

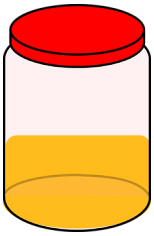
The volume of liquid in the jar is _____ units.

I have used small glasses as a unit of measure.
Complete the sentences.



The volume of liquid in the fish tank is __10__ units.

The volume of liquid in the bucket is __13__ units.

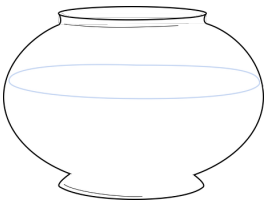


The volume of liquid in the jar is __9__ units.

The volume of liquid in the bottle is __7__ units.

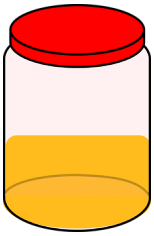
The volume of liquid in the jar is __8__ units.

I have used small glasses as a unit of measure.
Complete the sentences.



The volume of liquid in the fish tank is _____ units.

The volume of liquid in the bucket is _____ units.

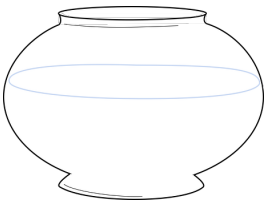


The volume of liquid in the jar is _____ units.

The volume of liquid in the bottle is _____ units.

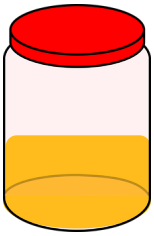
The volume of liquid in the jar is _____ units.

I have used small glasses as a unit of measure.
Complete the sentences.



The volume of liquid in the fish tank is __18__ units.

The volume of liquid in the bucket is __26__ units.



The volume of liquid in the jar is __7__ units.

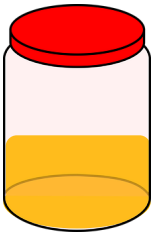
The volume of liquid in the bottle is __14__ units.

The volume of liquid in the jar is __10__ units.

I have used small glasses as a unit of measure.
Complete the sentences.

The volume of liquid in the fish tank is _____ units.

The volume of liquid in the bucket is _____ units.



The volume of liquid in the jar is 5 units less than the fish tank. How many units is it?

The volume of liquid in the jar is _____ units.

The volume of liquid in the bottle is 17 units less than the bucket. How many units is it?

The volume of liquid in the bottle is _____ units.

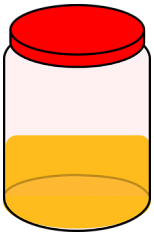
The volume of liquid in the jar is 6 units more than the fish tank. How many units is it?

The volume of liquid in the jar is _____ units.

I have used small glasses as a unit of measure.
Complete the sentences.

The volume of liquid in the fish tank is 22 units.

The volume of liquid in the bucket is 28 units.



The volume of liquid in the jar is 5 units less than the fish tank. How many units is it?

The volume of liquid in the jar is 17 units.

The volume of liquid in the bottle is 17 units less than the bucket. How many units is it?

The volume of liquid in the bottle is 11 units.

The volume of liquid in the jar is 6 units more than the fish tank. How many units is it?

The volume of liquid in the jar is 28 units.

How many  fill one  ?

What do you notice?

Tia poured her cups into the jar and they fill it exactly.

Tia says:

The jar has a capacity of three cups.

Is she correct?
Why?

Solve Problems for Capacity and Volume ☆ Reasoning & Problem Solving 1

How many  fill one  ?

What do you notice?

Tia poured her cups into the jar and they fill it exactly.

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How many  fill one  ?

What do you notice?

8 glasses fill one red bucket.
Children can notice that it will take 16 glasses to fill 2 red buckets etc.

Tia poured her cups into the jar and they fill it exactly.

Tia says:

The jar has a capacity of three cups.

Is she correct?
Why?

Tia is incorrect.
She has not filled the glasses to the top so her measuring is inaccurate.

Solve Problems for Capacity and Volume ☆ Answers Reasoning & Problem Solving 1

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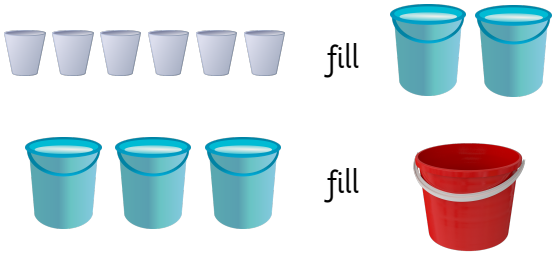

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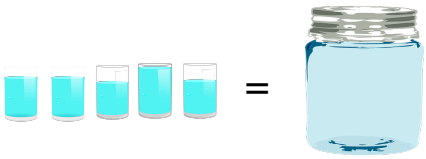
Tia poured her cups into the jar and they fill it exactly.

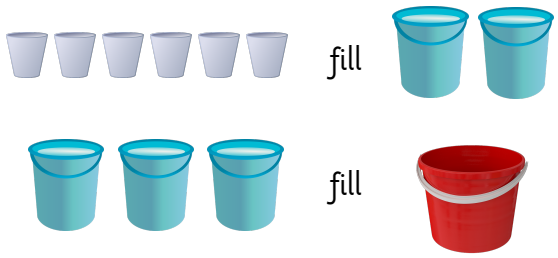


Tia says:

The jar has a capacity of five cups.

Is she correct?
Why?

Solve Problems for Capacity and Volume ☆☆ Reasoning & Problem Solving 1



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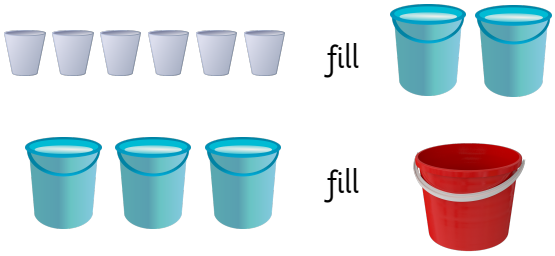

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9 glasses fill one red bucket.
Children can notice that it will take 18 glasses to fill 2 red buckets etc.

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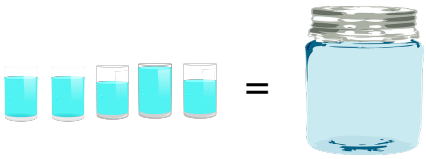

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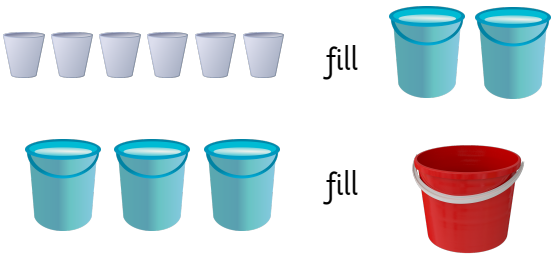
Solve Problems for Capacity and Volume ☆☆ Answers Reasoning & Problem Solving 1



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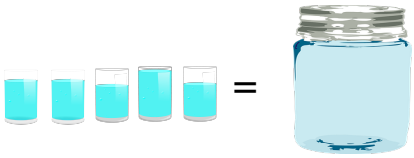

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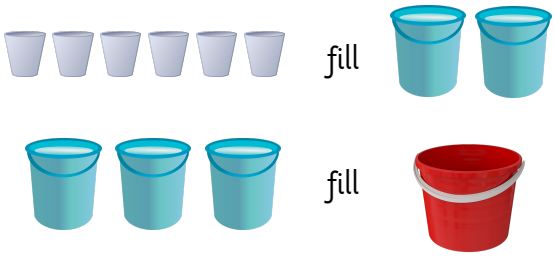

The volume of liquid in the 

is 5 glasses less than the red bucket.

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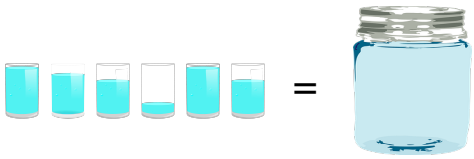
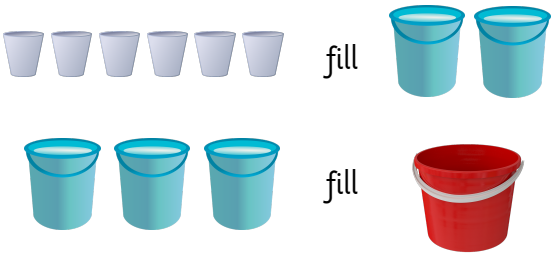


Tia says:

If I poured water from the jar into 3 full glasses, the jar would be half empty.

Is she correct?
Why?

Solve Problems for Capacity and Volume ☆☆☆ Reasoning & Problem Solving 1



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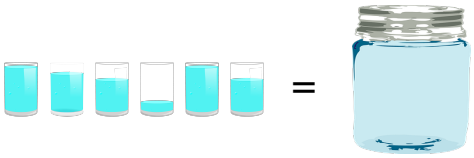

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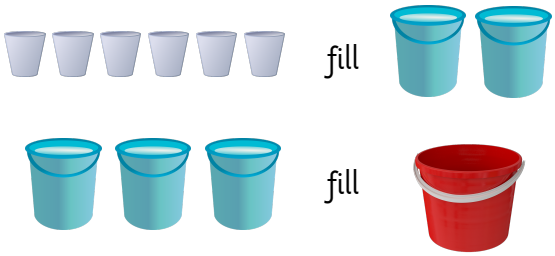

The volume of liquid in the 

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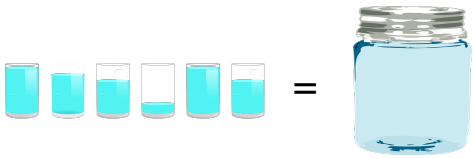
How many  fill one  ?

What do you notice?

4 glasses fill one fish tank.

Children can notice that it will take 8 glasses to fill 2 fish tanks etc.

Tia poured her cups into the jar and they fill it exactly.



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Why?

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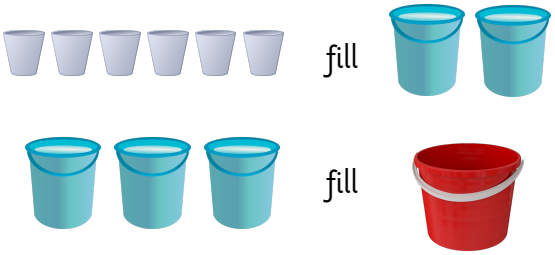
She has not filled the glasses to the top so her measuring is inaccurate.

Solve Problems for Capacity and Volume ☆☆☆ Reasoning & Problem Solving 1

Answers



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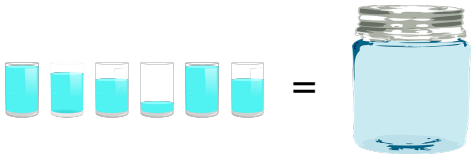

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