

Lesson 9– Capacity and Volume - Compare Capacity

NC Objective:

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]

Resources needed:

Differentiated Sheets
Teaching Slides

Vocabulary:

Capacity, compare, measure, more than, less than, equal to

Children compare the capacity of different containers using non-standard units of measure. They use 'more', 'less' and 'equal to' to compare as well as the symbols $>$, $<$ and $=$.

Key Questions:

Which container has the largest/smallest capacity?

Can we order them from largest to smallest?

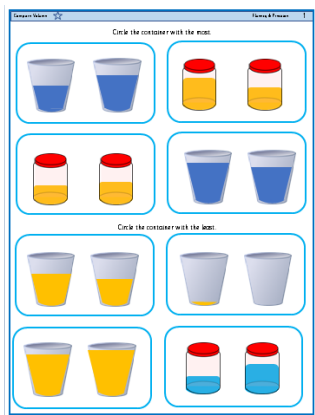
Which container do you think will hold more? How can we check?

What can we use to measure the capacity of these containers?

Can we show A has more than B but less than C?



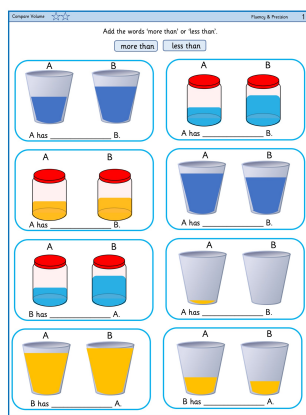
Working Towards



Instead of writing, children will follow the instructions of circling the container with the most or the least liquid.



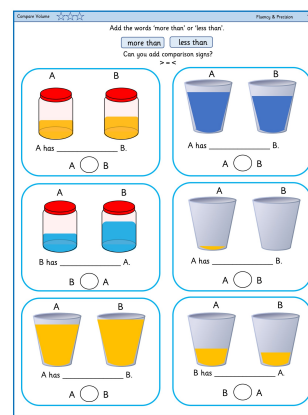
Working Within



Children compare two containers and will write more than or less than to complete the sentence.

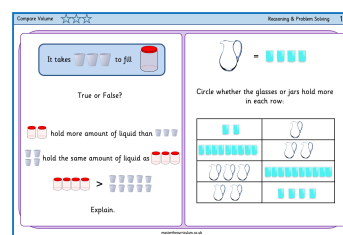
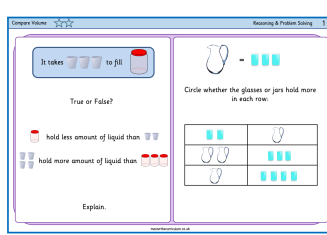
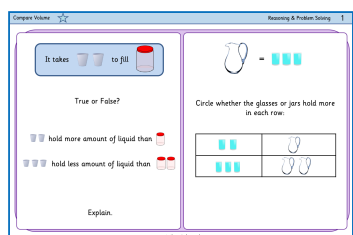


Greater Depth



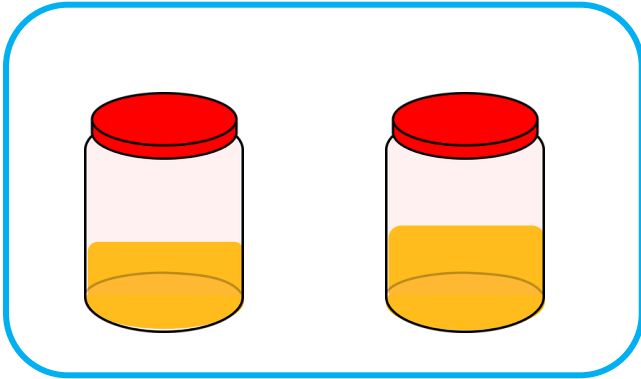
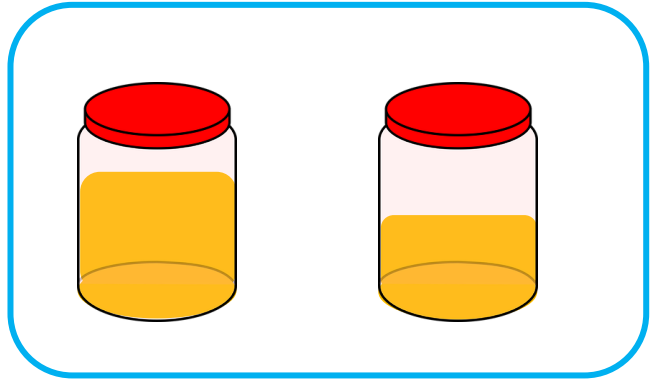
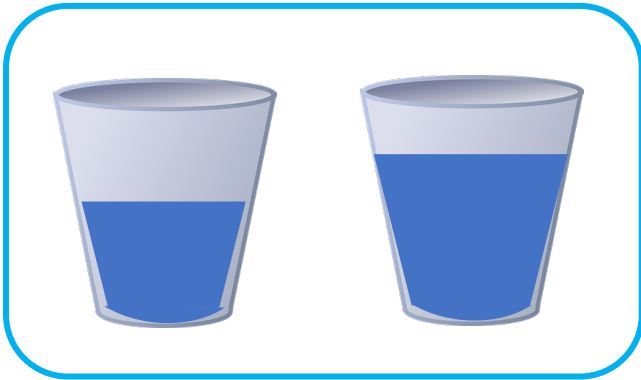
Children compare two containers and will write more than or less than to complete the sentence, they will also use inequality symbols.

Reasoning & Problem Solving

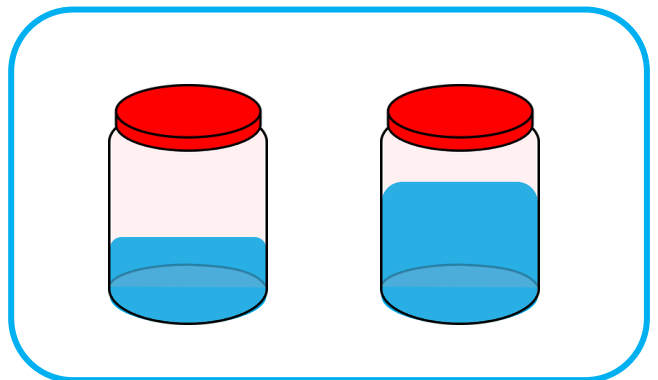
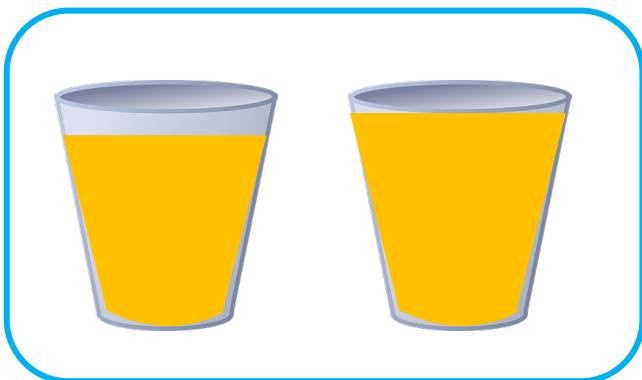




Circle the container with the most.

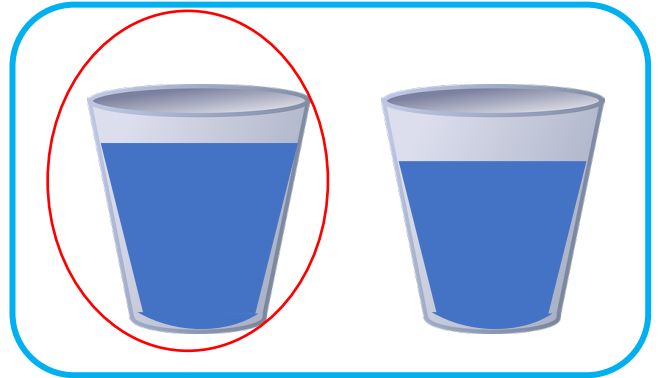
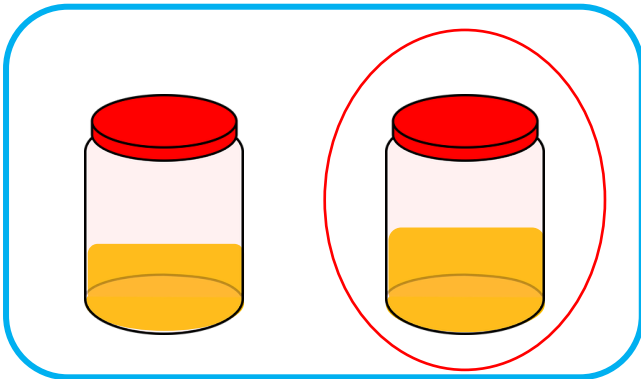
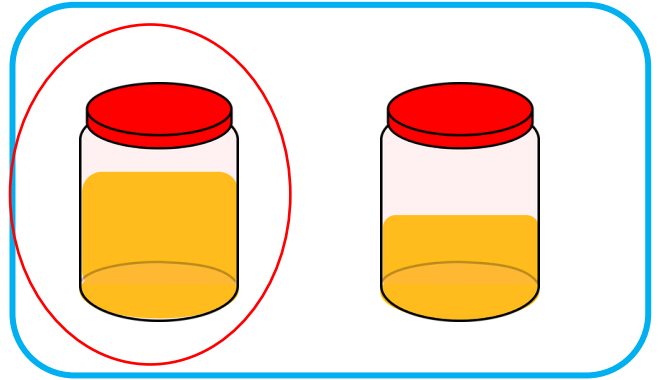
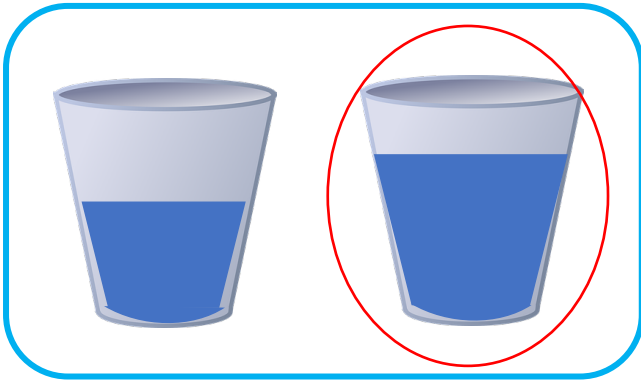


Circle the container with the least.

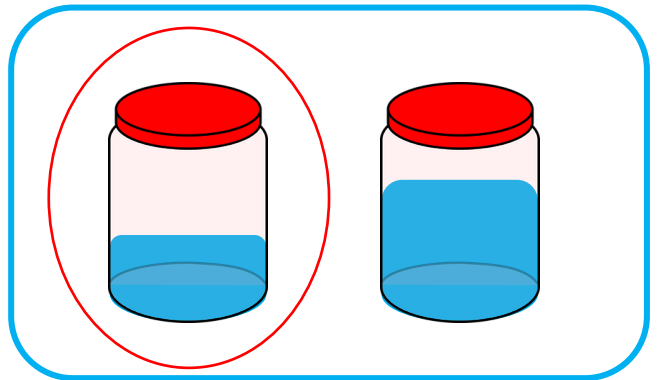
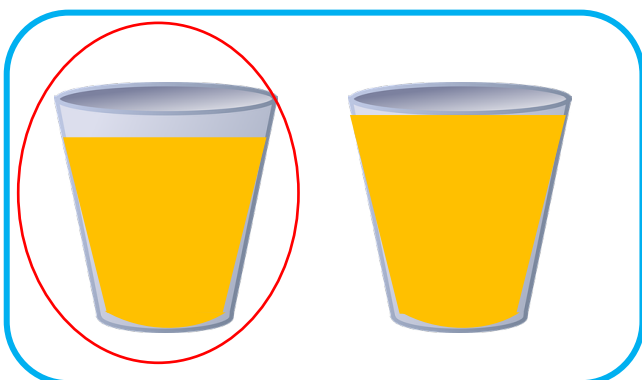
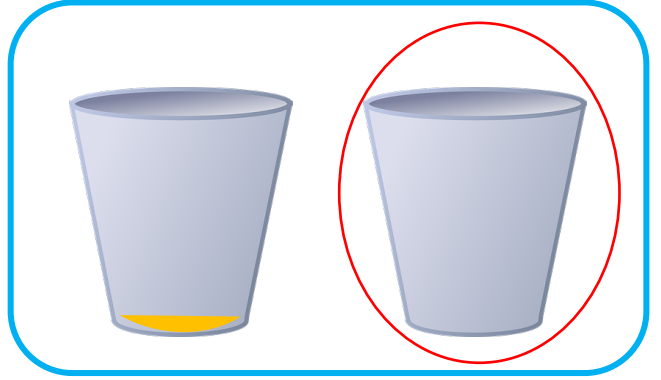
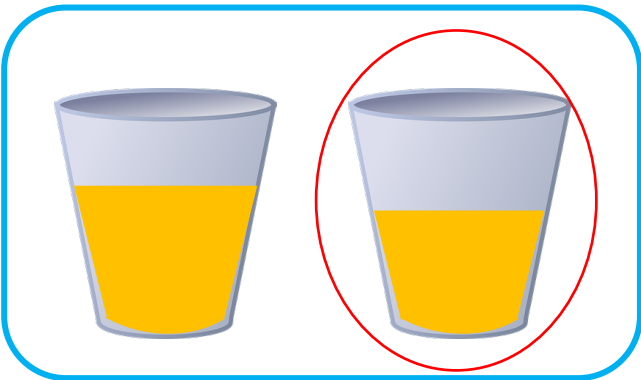




Circle the container with the most.



Circle the container with the least.

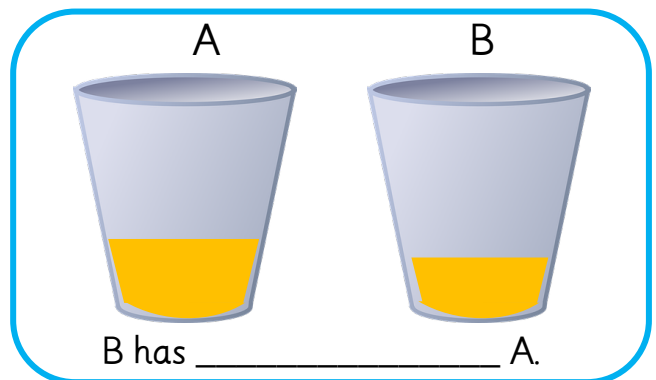
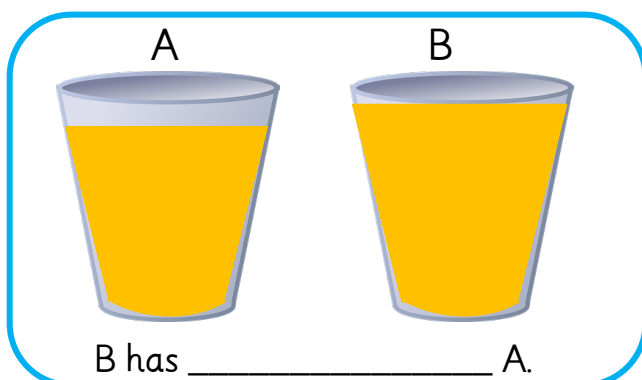
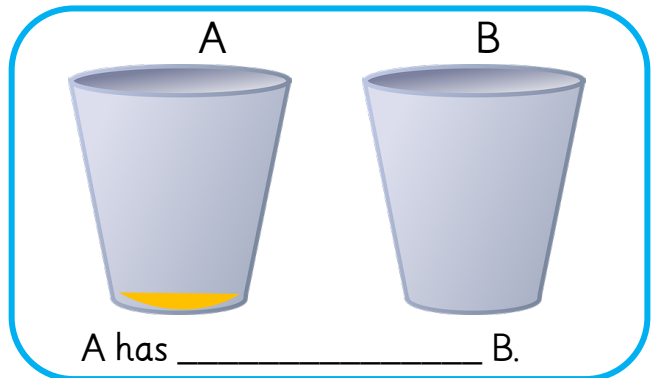
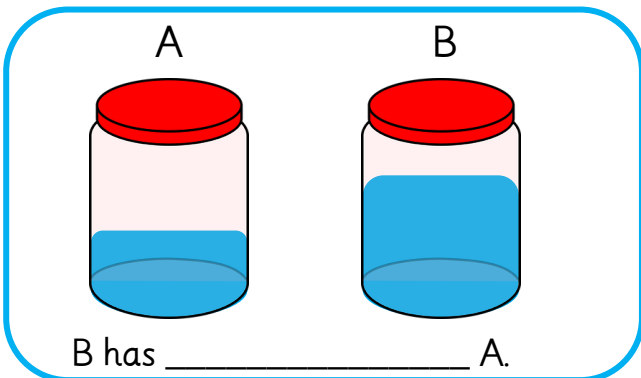
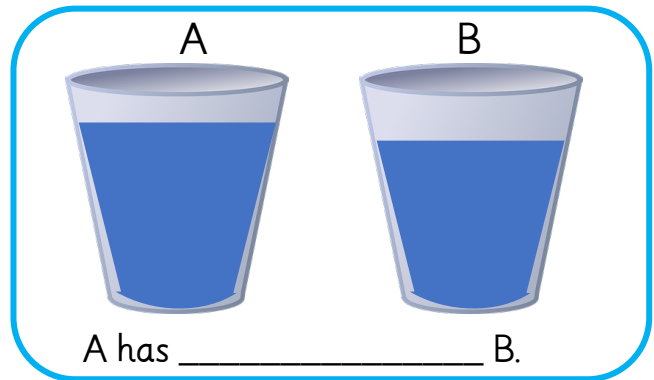
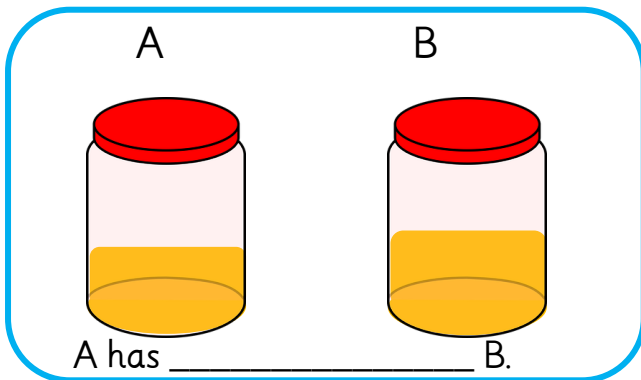
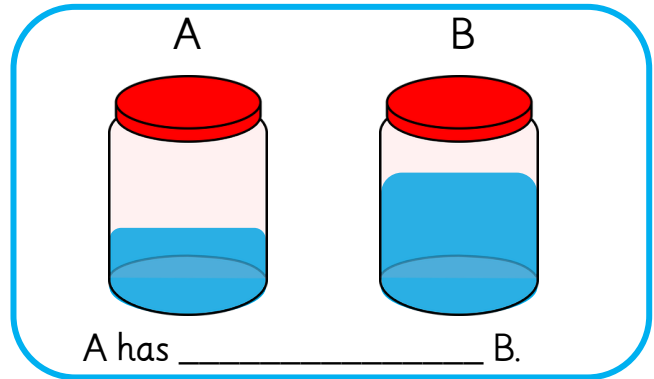
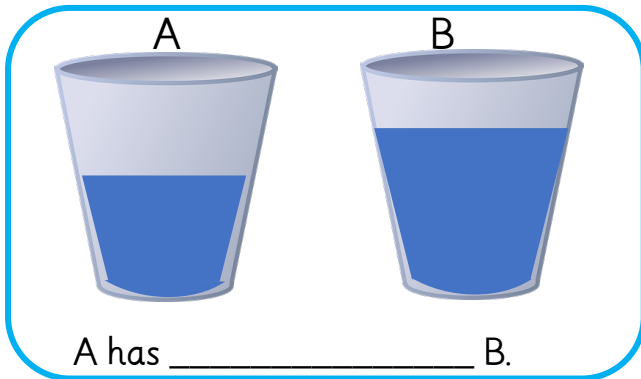




Add the words 'more than' or 'less than'.

more than

less than

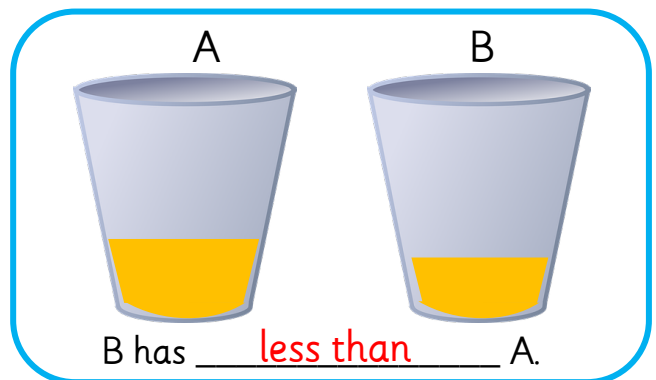
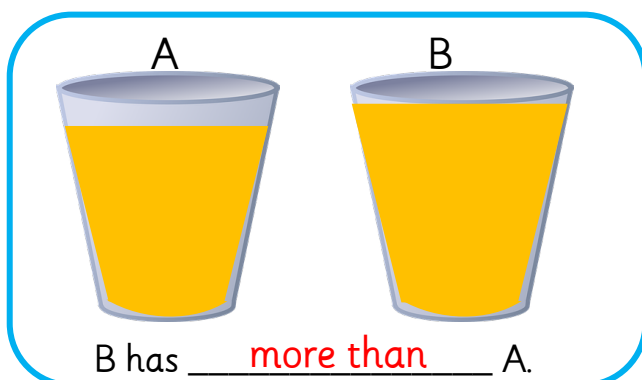
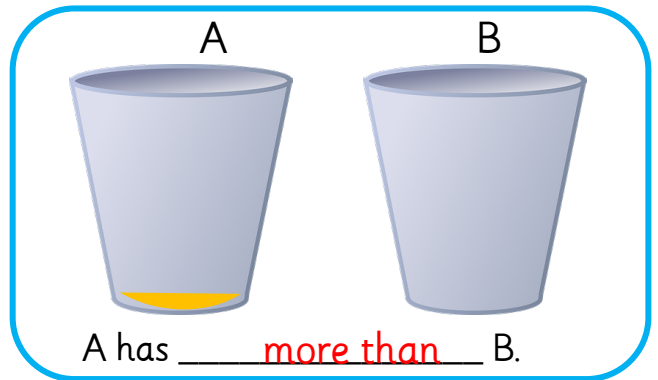
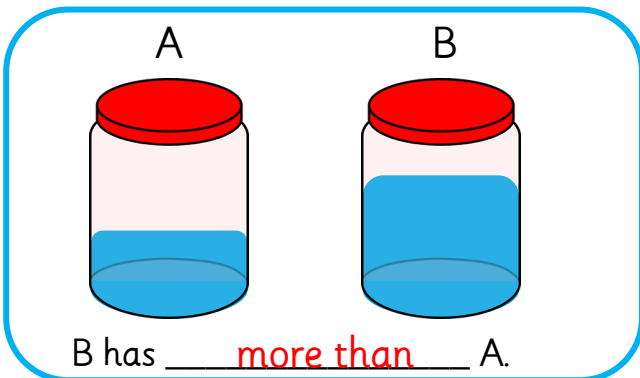
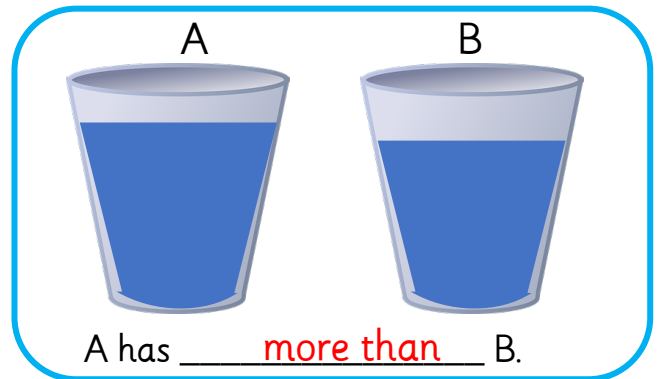
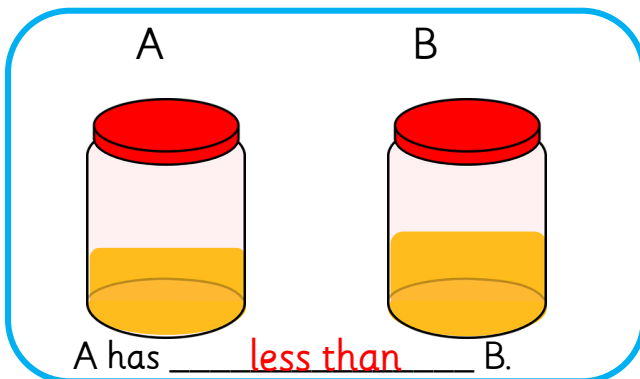
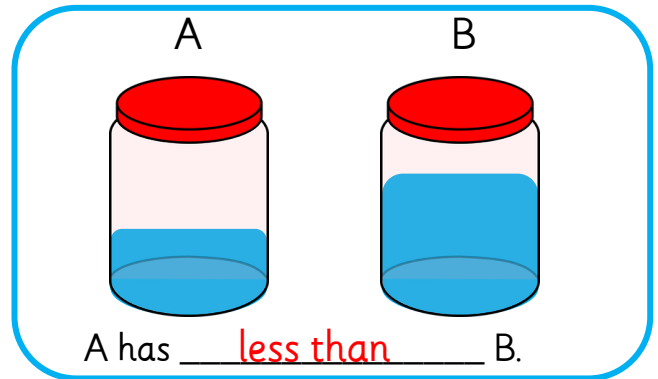
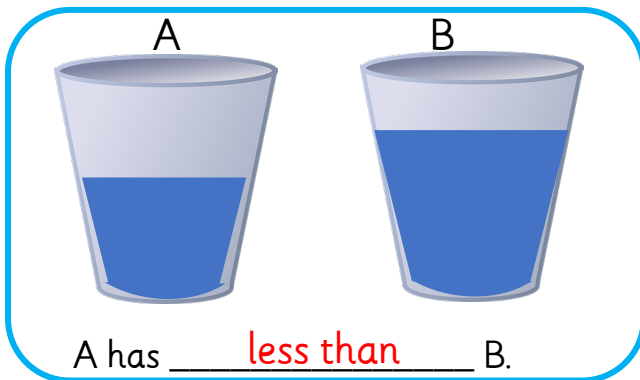




Add the words 'more than' or 'less than'.

more than

less than



Add the words 'more than' or 'less than'.

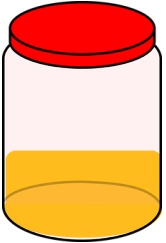
more than

less than

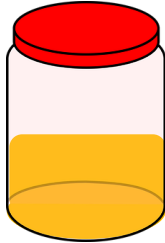
Can you add comparison signs?

$> = <$

A



B



A has _____ B.

A ○ B

A



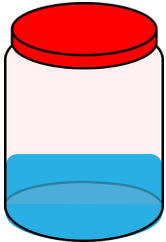
B



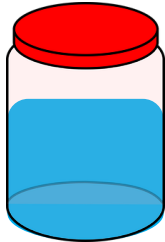
A has _____ B.

A ○ B

A



B



B has _____ A.

B ○ A

A



B



A has _____ B.

A ○ B

A



B



A has _____ B.

A ○ B

A



B



B has _____ A.

B ○ A



Add the words 'more than' or 'less than'.

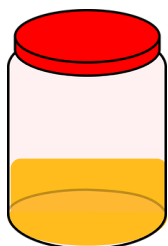
more than

less than

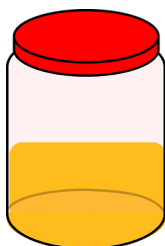
Can you add comparison signs?

$> = <$

A



B



A has less than B.

A $<$ B

A



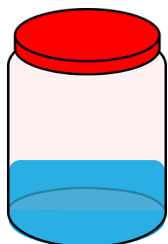
B



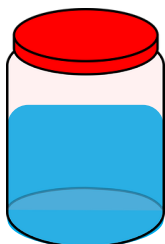
A has more than B.

A $>$ B

A



B



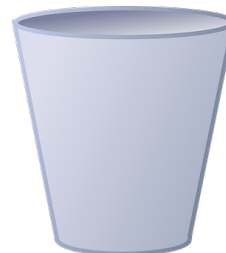
B has more than A.

B $>$ A

A



B



A has more than B.

A $>$ B

A



B



A has less than B.

A $<$ B

A



B



B has less than A.




B $<$ A








It takes   to fill



True or False?





  hold more amount of liquid than 

   hold less amount of liquid than  

Explain.



Circle whether the glasses or jars hold more in each row:




| | |
|---|---|
|  |  |
|  |  |








It takes   to fill



True or False?





  hold more amount of liquid than 

   hold less amount of liquid than  

Explain.



Circle whether the glasses or jars hold more in each row:

| | |
|---|---|
|  |  |
|  |  |





It takes   to fill






True or False?

False. One jar holds 2 glasses of liquid exactly.

  hold more amount of liquid than



True. Two jars hold 4 glasses of liquid exactly.





   hold less amount of liquid than



Explain.



Circle whether the glasses or jars hold more in each row:

| | |
|---|---|
|  |  |
|  |  |





It takes   to fill






True or False?

False. One jar holds 2 glasses of liquid exactly.

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   hold less amount of liquid than



Explain.



Circle whether the glasses or jars hold more in each row:

| | |
|---|---|
|  |  |
|  |  |




It takes  to fill




True or False?



hold less amount of liquid than 



hold more amount of liquid than 







Explain.



=



Circle whether the glasses or jars hold more in each row:

| | |
|---|---|
|  |  |
|  |  |
|  |  |




It takes  to fill

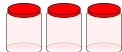


True or False?



hold less amount of liquid than 



hold more amount of liquid than 







Explain.



=



Circle whether the glasses or jars hold more in each row:

| | |
|---|---|
|  |  |
|  |  |
|  |  |




It takes  to fill



True or False?


False. One jar holds 3 glasses of liquid exactly.



hold less amount of liquid than 

False. Three jars hold 9 glasses of liquid exactly.



hold more amount of liquid than 







Explain.



=

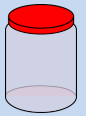


Circle whether the glasses or jars hold more in each row:

| | |
|---|---|
|  |  |
|  |  |
|  |  |




It takes  to fill



True or False?


False. One jar holds 3 glasses of liquid exactly.



hold less amount of liquid than 

False. Three jars hold 9 glasses of liquid exactly.



hold more amount of liquid than 







Explain.



=



Circle whether the glasses or jars hold more in each row:



| | |
|---|---|
|  |  |
|  |  |
|  |  |





It takes  to fill



True or False?

 hold more amount of liquid than 

 hold the same amount of liquid as 









 > 

Explain.



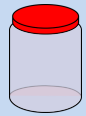
= 

Circle whether the glasses or jars hold more in each row:



| | |
|--|---|
|  |  |
|  |  |
|  |  |
|  |  |





It takes  to fill



True or False?

 hold more amount of liquid than 

 hold the same amount of liquid as 









 > 

Explain.



= 

Circle whether the glasses or jars hold more in each row:

| | |
|--|---|
|  |  |
|  |  |
|  |  |
|  |  |





It takes  to fill





True or False?



True. Two jars hold 6 glasses of liquid exactly.

 hold more amount of liquid than 

False. Three jars hold 9 glasses of liquid exactly.

 hold the same amount of liquid as 

True. Four jars hold 12 glasses of liquid exactly.









 > 

Explain.



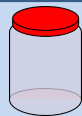
= 

Circle whether the glasses or jars hold more in each row:

| | |
|--|---|
|  |  |
|  |  |
|  |  |
|  |  |





It takes  to fill





True or False?

True. Two jars hold 6 glasses of liquid exactly.

 hold more amount of liquid than 

False. Three jars hold 9 glasses of liquid exactly.

 hold the same amount of liquid as 

True. Four jars hold 12 glasses of liquid exactly.









 > 

Explain.



= 

Circle whether the glasses or jars hold more in each row:

| | |
|--|---|
|  |  |
|  |  |
|  |  |
|  |  |