

# Fact families



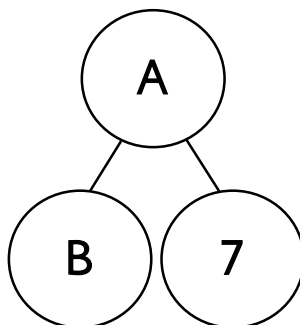
Problem solving and reasoning cards:

The fact family below is correct because all the numbers are related.

$3 + 5 = 8$
$5 + 3 = 8$
$3 - 8 = 5$
$5 - 8 = 3$

True or false?

Here is an incomplete part-whole model.  
The total is greater than 10 but less than 16.  
What could the numbers A and B be?



List all possibilities.

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Create your own fact family.  
How many different ways can it be completed?

13	
?	?

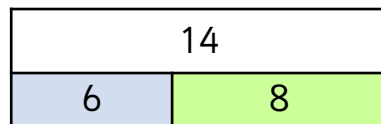
\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ = \_\_\_\_\_ - \_\_\_\_\_

\_\_\_\_\_ = \_\_\_\_\_ - \_\_\_\_\_

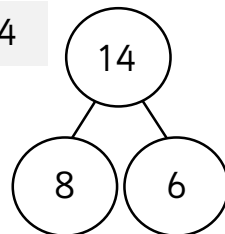
Circle the representations that represent the bar model below.



$14 = 6 + 8$

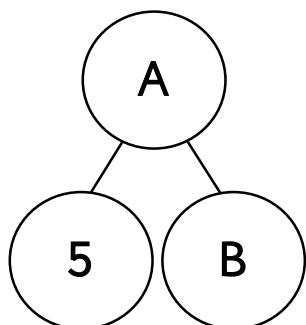
$8 - 6 = 14$

There are 8 sweets in a jar, 6 get eaten.



Here is an incomplete part-whole model.  
The total is greater than 9 but less than 14.  
What could the numbers A and B be?

List all possibilities.



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Asha

All the facts are correct because the numbers are related.

Not all facts are correct.



Rob

$5 + 4 = 9$

$4 + 5 = 9$

$9 = 5 - 4$

$4 = 9 - 5$

Who do you agree with?  
Explain your answer.

# Fact families



Problem solving and reasoning cards:

The fact family below is correct because all the numbers are related.

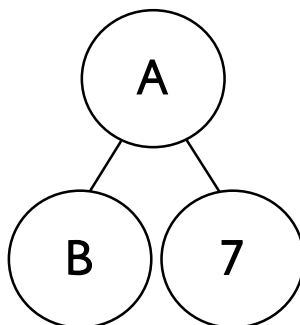
$3 + 5 = 8$
$5 + 3 = 8$
$3 - 8 = 5$
$5 - 8 = 3$

True or false?

False, the subtraction calculations are in the wrong order.

Here is an incomplete part-whole model.  
The total is greater than 10 but less than 16.  
What could the numbers A and B be?

List all possibilities.



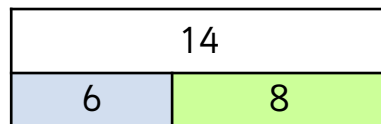
4 and 11,  
5 and 12,  
6 and 13  
7 and 14  
8 and 15.

Create your own fact family.  
How many different ways can it be completed?

13	
?	?

$\underline{\quad} + \underline{\quad} = \underline{\quad}$   
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$   
 $\underline{\quad} = \underline{\quad} - \underline{\quad}$   
 $\underline{\quad} = \underline{\quad} - \underline{\quad}$

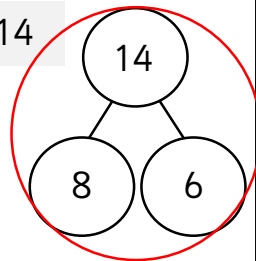
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$14 = 6 + 8$

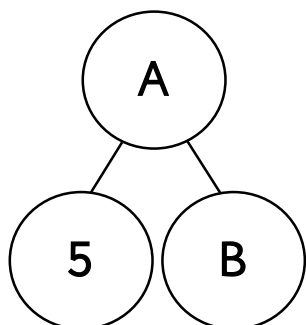
$8 - 6 = 14$

There are 8 sweets in a jar, 6 get eaten.



Here is an incomplete part-whole model.  
The total is greater than 9 but less than 14.  
What could the numbers A and B be?

List all possibilities.



5 and 10  
6 and 11  
7 and 12  
8 and 13



Asha

All the facts are correct because the numbers are related.

Not all facts are correct.



Rob

$5 + 4 = 9$   
 $4 + 5 = 9$   
 $9 = 5 + 4$   
 $4 = 9 - 5$

Who do you agree with?  
Explain your answer.

Rob is correct.  
 $9 = 5 + 4$  is incorrect.