1. What calculations are represented?  
The first one has been done for you.  

a)  
15 + 5 = 20

b)  
12 + 8 = 20

c)  
7 + 13 = 20

d) How many other number bonds to 20 can you make using counters and ten frames?  

Various answers  

2. Complete the fact family.  

a)  
15 + 2 = 17

b)  
2 + 15 = 17

17 = 2 + 15

17 − 15 = 2

2 = 17 − 15

15 = 17 − 2

b)  
2 − 17 = 15 should be in the fact family.  

Explain why Rosie is wrong.
3. Complete the number sentences for the part-whole model.

\[ \begin{align*}
5 + 6 &= 11 \\
11 - 5 &= 6 \\
6 + 5 &= 11 \\
11 - 6 &= 5
\end{align*} \]

Are there any other number sentences in this fact family? Talk about it with a partner.

4. There are 9 boys and 8 girls in a class. Complete the bar model to represent this.

\[ \begin{align*}
9 + 8 &= 17 \\
8 + 9 &= 17 \\
17 - 8 &= 9 \\
17 - 9 &= 8
\end{align*} \]

5. Circle any incorrect calculations.

\[ \begin{align*}
3 + 7 &= 10 & 10 &= 3 + 7 \\
7 + 3 &= 10 & 10 &= 7 + 3 \\
10 - 7 &= 3 & 7 - 3 &= 10 \\
3 - 10 &= 7 & 7 &= 10 - 3
\end{align*} \]

Explain the mistake that has been made.

6. Here are some number cards. Choose two number cards and find their total.

\[ \begin{align*}
5 &\quad 2 \\
7 &\quad 13 \\
6
\end{align*} \]

Choose two number cards and find their total.

\[ \begin{align*}
7 + 6 &= 13
\end{align*} \]

Write the fact family for this calculation. Compare answers with a partner.