L.K: Reading, interpreting and comparing pictograms

Pictograms are an easy to interpret and easy to produce way of showing data. The data must be something called discrete data, which is data that has a fixed whole number. For example, you would be measuring the amounts of people visiting Birmingham or the amount of children who come to school on the bus.

Use the tally chart below to fill in the table for the amount of people who state that each New York attraction is their favourite:
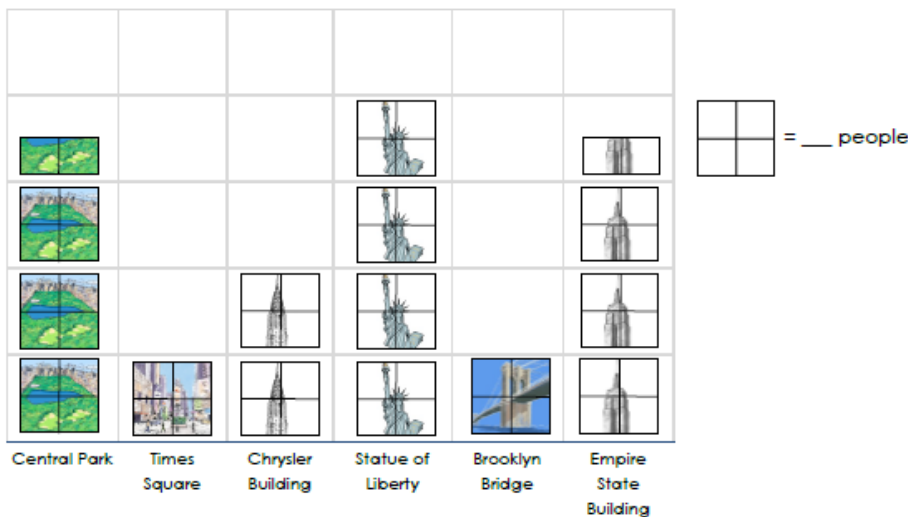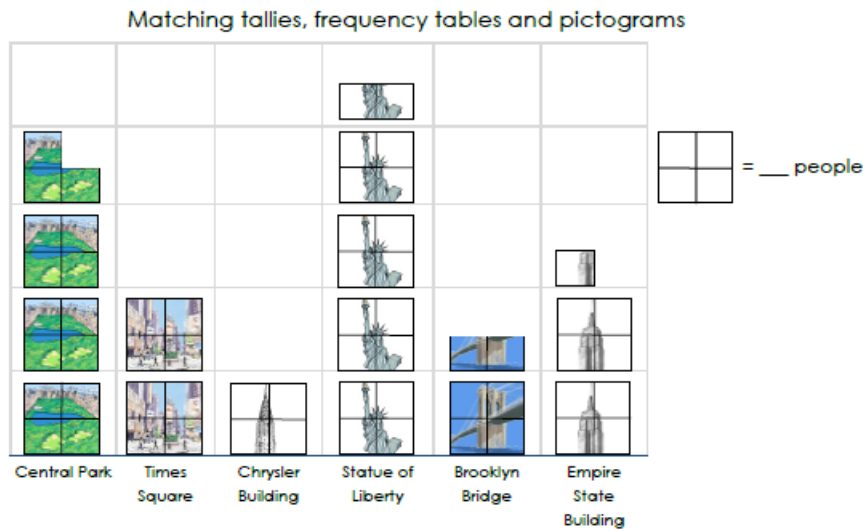
Central Park	╫╫ ╫╫ ╫╫
Times Square	╫╫ |||
Chrysler Building	||||
Statue of Liberty	╫╫ ╫╫ ╫╫|||
Brooklyn Bridge	╫╫	
Empire State Building	╫╫ ||||

Favourite children's attraction	Number
Central Park	
Times Square	
Chrysler Building	
Statue of Liberty	
Brooklyn Bridge	
Empire State Building	

Central Park	╫╫ ╫╫ ||||
Times Square	||||
Chrysler Building	╫╫ |||
Statue of Liberty	╫╫ ╫╫ ╫╫	
Brooklyn Bridge	||||
Empire State Building	╫╫ ╫╫ ||||

Favourite adults attraction	Number
Central Park	
Times Square	
Chrysler Building	
Statue of Liberty	
Brooklyn Bridge	
Empire State Building	

The pictograms for each selection of data (children and adults) is shown below. Which one do you think is which and why? Then have a go at the questions at the end.

Matching tallies, frequency tables and pictograms

| Central Park | Times Square | Chrysler Building | Statue of Liberty | Brooklyn Bridge | Empire State Building |

= ___ people

| Central Park | Times Square | Chrysler Building | Statue of Liberty | Brooklyn Bridge | Empire State Building |

= ___ people

1. How many more children than adults said that Central Park was their favourite attraction?
2. How many adults and children said their favourite attraction was the Empire State Building?
3. Which was the most popular attraction for children?
4. Which was the least popular attraction for adults?
5. In total, was the Empire State Building or Central Park more popular?
6. If you were planning a children's tour of New York, which two places would you choose to include and why?
7. How many adults' favourite attraction was the Chrysler Building or Brooklyn Bridge?
8. What was the most popular attraction overall?
9. Which attraction was twice as popular for adults than it was for children?
10. Tim and Julie's tour takes tourists to the Empire State Building, Brooklyn Bridge and Times Square. How could they change their tour to make it more popular?